CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, September 6, 1906.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close. Sept.	Work.	Place.	On file.	See issue.
6	Dredging	Boston, Mass.	P., S. & B. S.	8-23
*7	Bridge	Portland, Ore.	P., S. & B. S.	8-16
8	Sea wall	Philadelphia, Pa.	S.	8-30
*10	Embankment	Boston, Mass.	P. & S.	8-23
10	Electric pumps	Buford, N. Dak.	P., S. & B. S.	8- 9
*10	Boilers	Asbury Park, N. J.	P. & S.	8-23
10	Reservoir	Baltimore, Md.	P. & S.	9- 6
*11	Sewers	Covington, Tenn.	S. & B. S.	9- 6
*15	Irrigation ditches	Hazen, Nev.	P., S. & B. S.	8- 2
*17	Subway and tunnel	Minneapolis, Minn.	P., S. & B. S.	9- 6
*17	Dam	Hermiston, Ore.	P., S. & B. S.	6-26
*11	Canals, etc.	Williston, N. Dak.	P., S. & B. S.	7-19
15	Hotel bldg.	Manila, P. I.	S.	3-29
*18	Portland cement	Portland, Ore.	S.	7-28
*22	Dredging	Mobile, Ala.	S.	8-23
*22	Elec. subway system	West Point, N. Y.	P., S. & B. S.	8-23
*24	Boiler	Wilmington, Del.	P., S. & B. S.	8-30
Oct.				
*1	Ditches	Portland, Ore.	P., S. & B. S.	8- 9
*1	Lock	Donaldsonville, La.	P. & S.	7- 5
*15	Steel wharf sheds, railways	Manila, P. I.	P. & S.	7-19

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work.	Place.	On file.	See issue.
Sept. 6	Power-house, etc.	Georgetown, Ohio		Aug. 16
Sept. 10	Electric pumps	Buford, N. Dak.		Aug. 9
Sept. 10	Electric mchny	Williston, N. Dak.		July 19
	Advertised, Eng. News, July 19 to Aug. 16.			
Sept. 10	Heating & power equip.	Evansville, Ind.		Aug. 30
Sept. 12	Transformer plant	Chicago, Ill.		July 26
Sept. 12	Transformer substation	Chicago, Ill.		Aug. 9
Sept. 17	Power plant	Paw Paw, Mich.		Sept. 6
Sept. 18	Lighting	Pottsville, Pa.		July 12
Sept. 18	Electric light plant	Clinton, Mo.		Aug. 30
Sept. 19	Electric light plant	Manassas, Va.		Sept. 6
Sept. 20	Lighting	Anniston, Ala.		Aug. 23
Sept. 22	Underground transmission line	Albany.		Aug. 30
	Advertised, Eng. News, Aug. 30 to Sept. 20.			
Sept. 24	Lighting system	Sacket Harbor, N. Y.		Sept. 6
	Advertised, Eng. News, Sept. 6 and 13.			
Sept. 30	Electric light plant	Malvern, Ark.		Aug. 23
Oct. 1	Light plant	Mobile, Ala.		Aug. 30

BRIDGES.

Sept. 6	Bridge	Memphis, Tenn.		Aug. 30
Sept. 6	Bridges	Fargo, N. Dak.		Aug. 23
Sept. 7	Bridge	Portland, Ore.		Aug. 16
	Advertised, Eng. News, Aug. 16 to Sept. 6.			
Sept. 7	Abutments	Grand Rapids, Mich.		Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.			
Sept. 7	Bridge	Scotts Mills, Ore.		Aug. 30
Sept. 7	Bridges	Newkirk, Okla.		Sept. 6
Sept. 10	Bridge	Carbondale, Pa.		Aug. 30
	Advertised, Eng. News, Aug. 30 and Sept. 6.			
Sept. 13	Bridges	Brownstown, Ind.		Aug. 30
Sept. 14	Bridge	Milwaukee, Wis.		Aug. 23
Sept. 15	Bridge	Washington, D. C.		Aug. 30
	Advertised, Eng. News, Aug. 30 and Sept. 6.			
Sept. 15	Bridges	Spokane, Wash.		Aug. 30
Sept. 15	Bridge, etc.	Centreville, Ont.		Sept. 6
Sept. 17	Bridges	Indianapolis, Ind.		Sept. 6
Sept. 17	Bridges	Chillicothe, Ohio		Aug. 30
Sept. 18	Bridge	Woodbury, Ga.		Aug. 30
Sept. 20	Bridge	Perry, Ohio		Aug. 30
Sept. 22	Arch	Euclid, Ohio		Sept. 6
Sept. 25	Bridge	Greensboro, Md.		Sept. 6
	Advertised, Eng. News, Sept. 6 and 13.			
Sept. 25	Bridge	Newark, Ohio		Sept. 6
Oct. 2	Bridge	Rome, Ga.		Sept. 6
Oct. 3	Approach	Elk City, Ore.		Sept. 6
Oct. 3	Bridges, etc.	Bradford, R. I.		Aug. 23
	Advertised, Eng. News, Aug. 23 and 30.			
Oct. 8	Bridge	Daggett, Cal.		Aug. 23

BUILDINGS.

Sept. 6	Residence	New Castle, Ind.		Aug. 23
Sept. 7	Officers' quarters	West Point, N. Y.		Aug. 9
	Advertised, Eng. News, Aug. 9.			
Sept. 8	Fireproofing	Washington, D. C.		Aug. 30
	Advertised, Eng. News, Aug. 30.			
Sept. 10	City hall	Yazoo City, Miss.		Aug. 30
Sept. 15	Hotel	Manila, P. I.		Mar. 29
Sept. 17	Painting and decorating	St. Paul, Minn.		Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.			
Sept. 17	School buildings	New York, N. Y.		Sept. 6
Sept. 18	Painting	Aberdeen, S. Dak.		Aug. 16
Sept. 18	School building	Bloomington, Ind.		Aug. 23
Sept. 20	Fireproof doors	Washington, D. C.		Aug. 16
	Advertised, Eng. News, Aug. 16 to Sept. 6.			
Sept. 20	Repairs	Chicago, Ill.		Aug. 30
Sept. 22	Elec. subway system	West Point, N. Y.		Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 13.			
Sept. 24	Church	New Orleans, La.		Aug. 30
Sept. 24	Barracks	Ft. Totten, N. Y.		Aug. 30
	Advertised, Eng. News, Aug. 30 to Sept. 20.			

WATER SUPPLY AND IRRIGATION.

Sept. 6	Water mains	Bismarck, N. Dak.		Aug. 16
Sept. 8	Excavating	White Plains, N. Y.		Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 6.			
Sept. 10	Boiler	Asbury Park, N. J.		Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.			
Sept. 10	Electric pumps	Buford, N. Dak.		Aug. 9
Sept. 10	Water meters	Winnipeg, Man.		Aug. 30
	Advertised, Eng. News, Aug. 30.			
Sept. 10	Reservoir	Baltimore, Md.		Sept. 6
Sept. 10	Water tower	New York, N. Y.		Sept. 6
Sept. 10	Laying pipe	Finley Park, Ill.		Sept. 6
Sept. 12	Filter station	New York, N. Y.		Aug. 30
Sept. 17	Artesian well	Pierre, S. Dak.		Aug. 30
Sept. 17	Pump	Paw Paw, Mich.		Sept. 6
Sept. 18	Water-works	Clinton, Mo.		Aug. 30
Sept. 18	Pump	Huntington, Ind.		Aug. 30
Sept. 28	Filtration machines	California, Ohio.		Aug. 23
Sept. 28	Pumping plant, Garden City, Kans.			Aug. 2
	Advertised, Eng. News, Aug. 2 to Sept. 6.			
Sept. 28	Wells, etc.	Garden City, Kan.		Sept. 6
Sept. 28	Laying pipe	Cincinnati, Ohio.		Sept. 6
Sept. 11	Freight shed	Toronto, Ont.		Sept. 6
Sept. 11	Library	Ottawa, Ont.		Sept. 6
Sept. 18	Supplies	Washington, D. C.		Sept. 6
Sept. 24	Electric fixtures	Vancouver Bar., Wash.		Sept. 6
Oct. 8	Water-works	Lockport, N. Y.		Aug. 23
Oct. 11	Equipment	Washington, D. C.		Sept. 6

SEWERAGE.

Sept. 7	Sewers	St. Charles, Mo.		Aug. 23
	Advertised, Eng. News, Aug. 23.			
Sept. 7	Sewer pumps	St. Charles, Mo.		Aug. 23
	Advertised, Eng. News, Aug. 23.			
Sept. 7	Sewers	Utica, N. Y.		Aug. 16
Sept. 7	Sewer gates	Manila, P. I.		July 5
	Advertised, Eng. News, July 5 to Aug. 23.			
Sept. 7	Sewer	Fargo, N. Dak.		Sept. 6
Sept. 10	Sewers	Pine Bluff, Ark.		Sept. 6
Sept. 10	Sewer	Kokomo, Ind.		Sept. 6
Sept. 10	Sewers	Paducah, Ky.		Sept. 6
	Advertised, Eng. News, Sept. 6.			
Sept. 10	Sewers	New Ulm, Minn.		Aug. 30
Sept. 10	Sewers	Mauston, Wis.		Aug. 30
Sept. 10	Sewers	Steubenville, Ohio.		Aug. 30
Sept. 10	Sewers	New York, N. Y.		Aug. 30
Sept. 11	Sewers	Washington, D. C.		Aug. 30
	Advertised, Eng. News, Aug. 30 and Sept. 6.			
Sept. 11	Sewers	Covington, Tenn.		Aug. 23
	Advertised, Eng. News, Aug. 23 and 30.			
Sept. 11	Sewer	Washington, D. C.		Sept. 6
Sept. 12	Water-works & sewers	Ft. Francis, Ont.		Sept. 6
Sept. 12	Sewers	Denton, Md.		Sept. 6
Sept. 12	Sewers	Dowagiac, Mich.		Aug. 23
Sept. 12	Sewers	Denton, Md.		Aug. 23
	Advertised, Eng. News, Aug. 23 and 30.			
Sept 12	Sewer gates	Manila, P. I.		Aug. 23
Sept. 12	Sewers	Kearney, N. J.		Aug. 30
Sept. 12	Sewers	New York, N. Y.		Aug. 30
Sept. 12	Sewers	New York, N. Y.		Sept. 6
Sept. 14	Water-works & sewers	Moosomin, Sask.		Sept. 6
Sept. 15	Sewers	New Canaan, Conn.		Sept. 6
	Advertised, Eng. News, Sept. 6.			
Sept. 17	Sewers	Cleveland, Ohio		Sept. 6
Sept. 19	Storm water drains	Baltimore, Md.		Sept. 6
Sept. 19	Drains	Baltimore, Md.		Aug. 30
	Advertised, Eng. News, Aug. 30 and Sept. 6.			
Sept. 20	Sewers	Lake City, S. C.		Aug. 30
	Advertised, Eng. News, Aug. 30 to Sept. 13.			
Sept. 22	Sewers	St. Johnsville, N. Y.		Sept. 6
	Advertised, Eng. News, Sept. 6 and 13.			
Sept. 23	Storm sewer	Portland, Ore.		Sept. 6
Sept. 27	Sewers	Brainerd, Minn.		Aug. 9
Oct. 1	Sewers	Narberth, Pa.		Sept. 6
	Advertised, Eng. News, Sept. 6 to 20.			

STREETS AND ROADS.

Sept. 6	Grading	Marietta, Ohio		Aug. 30
Sept. 6	Broken stone	New York, N. Y.		Aug. 23
Sept. 7	Grading, etc.	Washington, D. C.		Aug. 30
	Advertised, Eng. News, Aug. 30.			
Sept. 7	Paving	Woonsocket, R. I.		Aug. 30
Sept. 8	Sidewalks	Dixon, Ill.		Aug. 30
Sept. 10	Grading, etc.	Uniontown, Ala.		Aug. 30
Sept. 10	Repairing pavement	New York, N. Y.		Aug. 30
Sept. 10	Grading, etc.	Newark, N. J.		Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 6.			
Sept. 10	Grading, etc.	Elna, Pa.		Sept. 6
Sept. 10	Macadam, etc.	Orange, N. J.		Sept. 6
Sept. 10	Paving	Atlantic City, N. J.		Sept. 6
	Advertised, Eng. News, Sept. 6.			
Sept. 11	Paving	Cincinnati, Ohio		Sept. 6
Sept. 11	Road work	Upper Marlboro, Md.		Sept. 6
Sept. 11	Rock road	Winchester, Ind.		Sept. 6
Sept. 11	Rock road	Winchester, Ind.		Aug. 30
Sept. 12	Paving	New York, N. Y.		Aug. 30
Sept. 12	Macadam, Haddonfield, N. J.			Aug. 16
	Advertised, Eng. News, Aug. 16 to 30.			
Sept. 12	Paving	Zanesville, Ohio		Sept. 6
Sept. 12	Macadam	Boston, Mass.		Sept. 6
Sept. 12	Paving	Cleveland, Ohio		Sept. 6
Sept. 13	Paving	Chickasha, Ind. T.		Sept. 6
Sept. 14	Grading	Sandusky, Ohio		Sept. 6
Sept. 14	Paving	Portsmouth, Ohio		Sept. 6
Sept. 15	Gravel roads	Terre Haute, Ind.		Sept. 6
Sept. 14	Grading	Perth Amboy, N. J.		Sept. 6
Sept. 17	Paving	Dowagiac, Mich.		Sept. 6
	Advertised, Eng. News, Sept. 6 and 13.			
Sept. 20	Paving	Portsmouth, Va.		Sept. 6
	Advertised, Eng. News, Sept. 6 and 13.			
Sept. 20	Gravel road	Newport, Ind.		Sept. 6
Sept. 21	Macadam	Flemington, N. J.		Sept. 6
Sept. 22	Paving	Waycross, Ga.		Sept. 6
Sept. 24	Macadam	Chippewa Falls, Wis.		Sept. 6
Sept. 25	Paving	Cincinnati, Ohio		Sept. 6

MISCELLANEOUS CONTRACTS.

Sept. 6	Dredging	Boston, Mass.		Aug. 23
Sept. 6	Ferry building	New York, N. Y.		Aug. 30
Sept. 6	Piers	Parkersburg, W. Va.		Aug. 30
Sept. 7	Ferry structures	New York, N. Y.		Aug. 30
Sept. 7	Ditch	Madison, Minn.		Aug. 30
Sept. 8	Lumber	Panama		Aug. 30
Sept. 8	Sea-wall	Philadelphia, Pa.		Aug. 30
Sept. 8	Ry. excavation	International Ry.		Sept. 6
Sept. 10	Embankment	Boston, Mass.		Aug. 23
	Advertised, Eng. News, Aug. 23 and 30.			
Sept. 10	Lock and dam	Winnipeg, Man.		Aug. 16
Sept. 11	Timing devices	Washington, D. C.		Aug. 16
Sept. 11	Canals, ditches	Williston, N. Dak.		July 19
	Advertised, Eng. News, July 19 to Aug. 9.			
Sept. 11	Removing earth, boulders	Detroit, Mich.		Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 6.			
Sept. 11	Ditch	St. James, Minn.		Aug. 30
Sept. 11	Naval supplies	Washington, D. C.		Aug. 30
Sept. 12	Crematory building	Delaware City, Del.		Aug. 16
	Advertised, Eng. News, Aug. 16 to 30.			
Sept. 12	Locomotives	Bangkok, Siam (Foreign)		May 31
	Advertised, Eng. News, May 3 and 10.			
Sept. 13	Quay	Spain (Foreign)		Aug. 30
Sept. 14	Dam	Columbus, Ohio		Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 13.			
Sept. 14	Levee	New Orleans, La.		Aug. 30
Sept. 15	Railway	Ecuador (Foreign)		Aug. 23
Sept. 15	Canal, levee, Grosse Tete	La.		July 26
Sept. 15	Irrigation ditches	Hazen, Nev.		Aug. 2
	Advertised, Eng. News, Aug. 2 to 30.			
Sept. 17	Subway, tunnel	Minneapolis, Minn.		Aug. 30
	Advertised, Eng. News, Sept. 6 and 13.			
Sept. 17	Dam	Hermiston, Ore.		July 26
	Advertised, Eng. News, July 26 to Aug. 16.			
Sept. 18	Portland cement	Portland, Ore.		July 26
	Advertised, Eng. News, July 26 to Aug. 9.			
Sept. 18	Naval supplies	Washington, D. C.		Aug. 30
Sept. 18	Light-house	Vallejo, Cal.		Aug. 23
Sept. 18	Telephone cable	Australia (Foreign)		Aug. 30
Sept. 18	Pneumatic tube service	Wash., D. C.		Aug. 30
Sept. 18	Two piers	North Chicago, Ill.		Aug. 30
Sept. 19	Fire alarm system	Ft Leavenworth, Kan.		Sept. 6
Sept. 20	Tile drain	Pontiac, Ill.		Sept. 6
Sept. 22	Dredging	Mobile, Ala.		Aug. 23
	Advertised, Eng. News, Aug. 30 to Sept. 20.			
Sept. 22	Elec. subway system	West Point, N. Y.		Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 13.			
Sept. 24	Jetty and dike	Wilmington, Del.		Aug. 30
	Advertised, Eng. News, Aug. 30 to Sept. 20.			
Sept. 24	Boiler	Wilmington, Del.		Aug. 30
	Advertised, Eng. News, Aug. 30 to Sept. 20.			
Sept. 24	Dredging, rock removal	New York, N. Y.		Aug. 30
	Advertised, Eng. News, Aug. 30 to Sept. 20.			
Sept. 24	Fire hose	Winnipeg, Man.		Sept. 6
Sept. 25	Naval supplies	Washington, D. C.		Sept. 6
Sept. 25	Steel dredge, 10 pontoons	Cincinnati, O.		Aug. 30
	Advertised, Eng. News, Aug. 30 to Sept. 20.			
Sept. 26	River dredging	Chicago, Ill.		July 19
Sept. 26	Dredging plant	Chicago, Ill.		July 19
Sept. 28	Portland cement, Garden City, Kans.			Aug. 9
	Advertised, Eng. News, Aug. 9 to 30.			
Sept. 28	Dredging	New York, N. Y.		Aug. 30
	Advertised, Eng. News, Aug. 30 to Sept. 20.			
Sept. 27	Rock removal	New London, Conn.		Aug. 30
	Advertised, Eng. News, Aug. 30 to Sept. 20.			
Oct. 1	Ditches	Portland, Ore.		Aug. 9
	Advertised, Eng. News, Aug. 9 to 30.			
Oct. 1	Lock	Donaldsonville, La.		July 5
	Advertised, Eng. News, July 5 to Sept. 27.			
Oct. 3	Coal-handling plant	San Quentin, Cal.		Aug. 9
	Advertised Eng. News, Aug. 9 and 16.			
Oct. 10	Railway	Belgium (Foreign)		Aug. 30
Oct. 15	Drains	Rio Grande do Sul, Brazil (Forn.)		May 31
Oct. 15	Steel sheds, Rys.	Manila, P. I.		July 19
	Advertised, Eng. News, July 19 to Aug. 30.			
Oct. 16	Dam, canal, excav.	Lascruces, N. Mex.		Sept. 6
	Advertised, Eng. News, Sept. 6 to Oct. 11.			
Nov. 6	Railway	Spain (Foreign)		Aug. 30

Sept. 20	Chinese laborers	Panama		Aug. 23

CIVIL SERVICE EXAMINATIONS.

Sept. 12	Engineer draftsman	Washington, D. C.		Aug. 30
Sept. 12	Aid	Washington, D. C.		Aug. 30
Sept. 14	Arch. Draftsmen	Chicago, Ill.		Aug. 30
Sept. 15	Bridge Draftsman	Albany, N. Y.		Aug. 30
Sept. 15	Bridge Designer	Albany, N. Y.		Aug. 30
Sept. 15	Rodman	Albany, N. Y.		Aug. 30
Sept. 15	Sanitary Chemist	Albany, N. Y.		Aug. 30
Sept. 15	County Engr.	Albany, N. Y.		Aug. 30
Sept. 15	Engineer Draftsman	Albany, N. Y.		Aug. 30
Sept. 18	Struct. Iron Designers	Chicago, Ill.		Aug. 30
Sept. 19	Examiner	Washington, D. C.		Aug. 30
Sept. 20	Pitometer Expert	Chicago, Ill.		Aug. 30
Oct. 1	Construct. Engr.	Washington, D. C.		Aug. 30

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

AUGUSTA & LOUISVILLE.—This company has been granted a charter in Georgia to build a railroad from Louisville, Jefferson County, Ga., to a point on the Augusta & Florida Ry., 28 miles. Capital stock, $500,000. Incorporators: R. M. Murphree, J. C. Stone, W. D. Chance, I. F. Wills, B. C. Brack, J. B. Murphee, R. H. Burton, M. D. Jones and Allen W. Jones, of Midville, Ga.; R. J. Peel, of Vidette. Principal office, Louisville, Ga.

BALTIMORE & OHIO.—It is reported that plans are being prepared by the engineering department for rebuilding the Pittsburg & Western division between Allegheny and New Castle, Pa., 57 miles. It is said that this work will be carried on under the charter of the Brush Creek & Crows Run R. R. Co., which is said to be one of the projects included in Joseph Ramsey's scheme for an air line electric road between New York and Chicago. This project was noted fully last week.

Company may build ten or twelve tracks in its yard at Parkersburg, W. Va., and also construct a number of other lines at its terminals there. D. D. Carothers is Ch. Engr., at Baltimore, Md.

CAIRO & KANAWHA.—S. A. Moore, Gen. Mgr., Philippi, W. Va., advises us that contract for 8-mile extension from Macfarlan to Smithville will be let about Oct. 1. instead of later part of August, as announced last week.

CINCINNATI & BIRMINGHAM AIR LINE.—We are advised that J. H. Connor, of Nashville, Tenn., has projected and formed a company to construct a line of railroad from Somerset, Ky., to Birmingham, Ala., via Monticello, Ky.; Jamestown, Pornona, Altmont and Winchester, Tenn.; and Decatur, Ala. This line of road will form a connection at Somerset, Ky., with the Queen & Crescent Route, and will be 100 miles shorter than the old through line between Cincinnati and Birmingham. The railway will be built with easy grades and light curvatures, steel bridges with 80-lb. steel rails and white oak ties. Engineers are now locating line of road and securing right-of-way. This road will run for 150 miles through a virgin coal and timber belt, also iron, ore and other mineral deposits. It is to be known as the Cincinnati & Birmingham Air Line Ry.

COLORADO SOUTHWESTERN. — C. E. Happersett, Pres., Bovina, Colo., advises us that contracts probably will be let about Dec. 1 for construction of this line from Grand Junction, Colo., southerly for 86 miles. George Peters, Grand Junction, is Ch. Engr. Surveys are run and capital and right-of-way are obtained. Capital is $3,500,000.

COLORADO, TEXAS & MEXICO.—This company has been chartered in Oklahoma to build a railroad from Mangum, Okla., to Abilene, Tex., 289 miles. We are officially advised that contracts may be let about Oct. 1. Contract for part of the necessary construction has been let to the COLORADO, TEXAS & MEXICO CONSTRUCTION CO., of Mangum, Okla. Surveys have been run and capital and right-of-way are ready. Morris R. Locke is Pres. and John M. Blackburn is Ch. Engr., both at Mangum. Company's capital is $100,000.

COLORADO, UTAH & SOUTHWESTERN.—Incorporated in Colorado to build a railroad from Easton, Grand County, Colo., to Salt Lake City, Utah, passing through the counties of Grand, Clear Creek, Summit and Routt, in Colorado; and the counties of Uintah, Wasatch, Summit and Salt Lake, in Utah. Capital stock, $100,000. Incorporators: George Eastom, Bertha Eastom, Gustave Steffe, Moses H. Fisher and Arthur C. Labrie. Principal office, Denver, Colo.

ELK, BIRCH & GAULEY.—Company has been incorporated to build a line from the mouth of Birch River, in Braxton County, W. Va., to Camden-on-Gauley, in Webster County; capital, $100,000. The incorporators are: Thos. T. West, of Grafton; Gaylord S. Barnett, of Amos; Chas. A. Short, of Shinnston; Geo. F. Perry, of Gassaway; and Enoch C. Tetrick, of Clarksburg, all in W. Va.

FITZGERALD, OCMULGEE & RED BLUFF.—See Ocilla & Valdosta Ry.

GAINESVILLE & GULF.—See Tampa & Jacksonville Ry.

INTERCOLONIAL.—Bids are asked by D. Pottinger, Gen. Mgr., Moncton, N. B., until Sept. 8, for excavation at Halifax, N. S., in connection with the excavating and grading for new tracks at Halifax.

LELAND SOUTHWESTERN.—This company, which proposes to build from Leland to Swiftwater, Miss., eleven miles, has filed its charter. It is a branch of the Yazoo & Mississippi Valley R. R. The incorporators are R. B. Campbell, J. M. Cashin, W. R. Toombs, G. B. Rucks and A. H. Davis, of Leland.

LITTLE RIVER.—We are officially advised that contract has been awarded to J. W. ANDERSON & CO., Townsend, Tenn., for building a 15-mile extension from Townsend. G. B. Townsend is Ch. Engr., at Townsend.

MISSOURI, KANSAS & TEXAS.—We are officially informed that the PATTON & GIBSON CO., Ltd., of Pittsburg, Pa., has been awarded contract for 50-mile section between Denison, Tex., and Atoka, Ind. T., for revision of line and grades on 0.4% basis. Work is in progress. S. B. Fisher is Ch. Engr., of M., K. & T., at St. Louis, Mo.

OCENEE COUNTY.—We are officially informed that this company will let contracts about Oct. 1 for building its line from Townville to Westminster, S. C., 15 miles. Surveys are made and right-of-way secured. J. J. Fretwell is Pres., Anderson, S. C.; C. G. Sayre is Ch. Engr., at Anderson. Motive power will be steam until electric power can be installed.

OCILLA & VALDOSTA.—The Fitzgerald, Ocmulgee & Red Bluff Ry. has been purchased by this company, which will begin work immediately to connect the two lines between Ocilla & Fitzgerald, Ga., the survey having been made and right-of-way secured. Survey is also being made for the proposed extension from Wright via Rochelle and Hawkinsville to Macon, Ga., 90 miles. T. E. Richardson is Ch. Engr., at Broxton, Ga. At present the O. & V. Ry. is 54 miles long, and the F., O. & R. B. Ry. is 15 miles long.

PELHAM & HAVANA.—Charter has been granted to this company in Georgia to build a line from Pelham, Ga., to Havana, Fla., about 40 miles. Capital, $250,000. The incorporators are J. B. Martin, Robert Black, John Lane, W. F. Bamberg, H. C. Briggs, J. F. Lewis, of Valdosta, Ga.; C. J. Stephens, of Milltown; C. H. Butler, of Calvary; H. A. Sanders, of Whigham; and W. L. Perkins, of Jennings, Fla.

TAMPA & JACKSONVILLE.—Work is to be commenced at once and pushed to an early completion on the Tampa & Jacksonville Ry. The contract has been awarded to W. H. JONES, of Mayo, Fla., for grading 52 miles of the roadbed, from Crystal River to Brooksville, Fla., a distance of 28 miles, and from Brooksville to the Withlacoochee River, on the route to Tampa, a distance of about 25 miles. The Tampa & Jacksonville Ry. Co. was formerly known as the Gainesville & Gulf Ry.

TEXAS NORTHERN.—The charter of the Texas Northern Railroad Co. has been filed in Texas. It has a capital of $100,000. It will build a railroad from Forth Worth south to Egan, and thence northeast to Dallas, a distance of 60 miles. The general offices of the company are located at Fort Worth. The incorporators are Oscar Wells, G. H. Colvin and J. R. Daniel, of Fort Worth; Rhodes S. Baker, Sidney Reinhard, Royal A. Ferris and Henry E. Jackson, of Dallas, W. A. McDonald, of Cleburne, Tex.; B. P. McDonald, of Fort Scott, Kan.; David Bedell, of Iola, Kan.

ST. JOSEPH & SOUTHERN.—This company has been incorporated, it is announced officially, to build a double-track line from St. Joseph to Kansas City, Mo. John Donovan, Gen. Mgr. of the St. Joseph Stock Yards Co., is Pres. Engineers are running final survey. Capital stock is $500,000. The line will be about 50 miles long. Motor cars are to be used on the road to take care of the suburban and local passenger traffic.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

CHAMBERSBURG, PA.—Announcement is made that the Chambersburg & Gettysburg Electric Ry. Co. (controlled by the Valley Traction Co.) has filed applications in the State Department at Harrisburg for additions to its charter, asking for extensions in four different lines. M. C. Kennedy is Pres.

CHRISTIANSBURG, VA.—E. S. Hagan, who was recently granted an electric railway franchise, advises us that contracts for building the line will be let soon. Surveys are made and right-of-way is obtained and also necessary capital.

WHEELING, W. VA.—The Rapid Transit Railway has been chartered to build and operate a railroad to run from Wheeling to Seabright Hollow, Marshall County, West Virginia. Capital, $1,000,000. Incorporators: Albert M. Schenck, A. S. List, J. V. Braden and George P. Tolman, of Wheeling, W. Va.; and Chas. H. Ogden, of Pittsburg, Pa.

ROCKY MOUNT, N. C.—The Rocky Mount & Wilson Railway Co. has been chartered, with a paid in capital of $10,000 and $300,000 authorized. The objects of the company are to operate and maintain by electricity, or other power, a street or interurban railway, provided that the railway lines shall not extend for more than 50 miles in any one direction from the municipality in which its principal office is located; to lease or otherwise acquire and operate mills, plants; to generate and sell electricity for power, light and heat; to build and operate telephone and telegraph lines, etc.

ATLANTA, GA.—A charter for the Atlanta, Griffin & Macon Electric Ry. Co. has been granted. The capital stock of the company is placed at $100,000. The charter was granted upon the application of N. P. Pratt, W. A. Wimbish, Clifford L. Anderson and Grover P. Ansley, of Atlanta; N. J. Massee, J. T. Moore and Minter Wimberly, of Macon and W. J. Kincaid. James N. Brawner, Seaton Grantland and N. B. Drewry, of Griffin. The line when completed will be about 95 miles in length and will be operated between Atlanta and Macon. The principal offices will be located in Atlanta.

SAVANNAH, GA.—John Hardy Purvis, 4 East Bryan St., states that he desires to build 35 or 40 miles of tramroad in the southwestern part of Georgia, and would like to get in communication with parties who would consider such construction.

MILLTOWN, GA.—The South Georgia Land & Industrial Co., Milltown, Ga., is interested in construction and equipment of electrical railway. Correspondence is invited.

BIRMINGHAM, ALA.—John Towers, J. H. McCary and several other citizens are reported to be interested in a proposition to build a 5-mile scenic road along the crest of Shades Mountain.

NEW ORLEANS, LA.—We are officially informed that the New Orleans & Baton Rouge Electric R. R. Co. will let contracts in near future for building its line from New Orleans to Baton Rouge, 90 miles in length. Right-of-way is secured and survey made. W. Osgood Orton is Ch. Engr., and Edward Godchaux, Pres., both at New Orleans. Company is capitalized at $2,500,000.

MAYFIELD, KY.—Edward M. Skagen, Gen. Mgr. of the Mayfield & Columbus Electric Ry. Co., Wright Bldg., Columbus, Ky., writes us that "the construction of an electric railway is contemplated, to connect the town of Columbus, Ky., with Mayfield, Ky., 30 miles distant. The road will be a 'home' concern, and all kind of information is wanted relating to construction, etc."

LOUISVILLE, KY.—The Chicago & Western Indiana Traction Co. has been organized in Indiana to build a line from Louisville, Ky., to Chicago, Ill., about 325 miles. The directors are Edward H. Barrows, Daniel W. Boien and John S. McCulloch.

LAPEL, IND.—The Indianapolis, Hartford City & Eastern Traction Co. has agreed to alter its route so as to come to Lapel instead of Noblesville, as Lapel has subscribed $5,000 of stock in the road. The line is already surveyed from Celina, Ohio, to Noblesville. The road is to be built by Dec. 1, 1907.

GRAND RAPIDS, MICH.—John J. McVean, of McVean & Northrup, consulting engineers, in speaking of the projected Grand Rapids and Battle Creek line is quoted as stating that "the line taken by the survey goes through one of the best farming counties in the State. There should be no trouble in securing the right-of-way, for the farmers all along the line are very friendly to the project and will grant any reasonable concessions to the company which undertakes to build the road. The start from Grand Rapids will be at Reds Lake, and the line runs directly south to Alaska with only a slight curve crossing the river. From Alaska the route is direct to Hastings and from there to Battle Creek. There were very few engineering difficulties met along the surveyed route. The grades are never of 3% and only as bad as that in one or two places."

LUDINGTON, MICH.—The Milwaukee Engineering Co. is making plans for a proposed extensive electric road system in the State of Michigan, which is estimated to cost $1,000,000, according to Milwaukee "Wisconsin." The line is to be known as the Ludington, Hartland & Southwestern Ry. Co. It will be 50 miles in length and will run from Ludington, on Lake Michigan, to Hartland, in the eastern part of the State.

IOWA CITY, IOWA.—We are advised that the Iowa City, Montezuma & Des Moines Ry. Co. has been incorporated to build a 125-mile electric railway from Iowa City to Des Moines, by way of Montezuma. Hon. G. W. Ball, of Iowa City, is Pres. Surveys are partly made and right-of-way and capital are partly secured.

COUNCIL BLUFFS, IOWA.—W. B. Reed, Secy. Council Bluffs Commercial Club, 30 Pearl St., writes us, relative to the proposed electric line from Des Moines to Council Bluffs, that "the company has not been incorporated; it is simply an association of a half dozen men who had made a preliminary survey. The name of the company has not been decided upon and no officers have been elected, no decision has been arrived at in regard to the power to be used. The proposed route, as surveyed, would run from Council Bluffs directly east to Griswold, Cass County, Iowa. Surveys have been made, and estimates submitted but the right-of-way has not been obtained. There would be some heavy work on the line. At present some efforts are being made to get the company capitalized, and, of course, contracts will not be let until capital has been secured."

FORT PIERRE, S. DAK.—Frank G. Fisher, of this city, writes us that he has been granted a franchise for an electric street railway and is now arranging details and bridge crossing.

NEVADA, MO.—Thomas H. McDonough, the promotor of the Kansas City, Nevada & Springfield Railroad, for which this city a year or so ago raised a bonus of $10,000, announces that the money is on hand to build the road and that it will be built as originally planned, except that it will be an electric instead of a steam railroad.

CARTHAGE, MO.—The Southwestern Missouri Railroad Co., of Carthage, has filed incorporation articles to build 101 miles of electric railway in Jasper County and southern Kansas as follows: It is composed of the Southwest Missouri Electric Railway Co. and the Webb City & Northern Co. The former operates between Carthage, Joplin and Webb City, Mo., and Galena, Kan., 40 miles, and the latter, which has just been completed, operates between Webb City and Purcell, ten miles. Lines are proposed from Galena to Baxter Springs, Kan.; from Joplin via Duenweg to Carterville; from Purcell via Alba to Carthage, and from Joplin and Webb City via Carl Junction to Pittsburg and Columbus, Kan. A. H. Rogers, Carthage, is Pres.; J. B. Hodgdon is Ch. Engr., at Webb City; and E. J. Pratt is Elec. and Mech. Engr., at the same place.

FORT WORTH, TEX.—Warren Bicknell, John F. Harper, J. B. Nutt and E. W. Christy, all of Cleveland, Ohio; W. O. Allen, Fostoria, Ohio, and Carey B. Close of Toledo, Ohio, are named as the incorporators of the Citizens' Railway & Light Co., of Fort Worth, Tex., which has filed its charter. The company has a capital stock of $1,000,000, and is organized to build a system of interurban railways, radiating from Fort Worth.

BLACK DIAMOND, CAL.—An electric railway to connect the town of Black Diamond with the Bowers Rubber Works and the railway stations is projected by the C. A. Hooper Co., of Black Diamond. It is proposed to extend the railway from the Bowers plant and the Redwood Mfg. Co.'s mill to the town.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

ASHBURNHAM, MASS.—The contract for building the power plant for the W. Litney Chair Co. has been awarded to D. W. COOLEY, of Waterbury.

HARTFORD, CONN.—The Twin State Gas & Electric Co. has been incorporated here with a capital of $1,750,000. The incorporators are William Wherry, Jr., Harold G. Villard and George D. Martin.

SACKET HARBOR, N. Y.—Bids are asked until 11 a. m., Sept. 24, by the Constructing Quartermaster at Madison Barracks for constructing an electric lighting system. (Advertised, Engineering News.)

MOUNT HOLLY, N. J.—It is reported that the County Board of Burlington County are to erect an independent lighting plant.

PITTSBURG, PA.—The following bids were received by Wm. L. Sibert, Major, Corps of Engrs., U. S. Army, for building power-house at new lock No. 5, Monongahela River: Herman Bush, Pittsburg, Pa., $9,703; B. F. Jacobs Co., West Elizabeth, Pa., $9,047; Joseph Moscarelli, Beaver Falls, Pa., $7,0[illegible]; T. J. Williams, Pittsburg, Pa., $7,12[illegible].

WASHINGTON, D. C.—Bids are asked by the quartermaster's department until 2 p. m., Oct. 11, for constructing plumbing, drainage, gas piping, heating and ventilation, electric conduits and wiring system, electric elevator plant and vacuum cleaning system of building for The Walter Reed Army General Hospital, Army Hospital Grounds, Washington, D. C. Capt. A. W. Butt, Q. M., Washington, D. C.

WASHINGTON, D. C.—Bids are asked until Sept. 18 at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., to furnish at the Navy Yards at Mare Island, Cal., and Puget Sound, Wash., naval supplies as follows: Transformers, conduit, cable, blower and motor, and drill steels. H. T. B. Harris, Paymaster-Gen., U. S. N.

MANASSAS, VA.—Bids are asked until Sept. 19 by the Construction Committee at the People's National Bank for constructing water-works and an electric light plant. O. E. Newman is Chn.

MIAMI, FLA.—The Miami Gas Co. will soon commence to erect a gas plant here. The capital stock of the company is $100,000. W. W. Prout is one of the promoters.

GADSDEN, ALA.—Alabama City, Gadsden & Attalla Railway Co. has awarded contract to OTTO T. FISHER, of Birmingham, Ala., for the erection of the steel buildings for its proposed $125,000 electric power-house, previously reported; structure to be of steel and entirely fireproof; two stories high, 50 x 100 ft.

SHAW, MISS.—The contract for the erection of municipal electric lighting plant has been awarded to the SANDERS JOHNSON CO., of Vicksburg. S. B. Clark is Ch. Engr.

NATCHITOCHES, LA.—Extensive improvements and additions will be made to the municipal electric light and water-works plant soon. A 150-KW. alternating-current, three-phase, 2,300-volt Crocker-Wheeler generator direct connected to a 220-HP. Harrisburg engine will be installed about Oct. 15. J. R. Carroll is Supt.

CHARLESTON, TENN.—The SIMMONS-MAYLAND CO. has been awarded the contract for the construction of central power plant at the navy yard. Estimated cost, $150,000.

JACKSON, TENN.—The Jackson Railway & Light Co. has awarded the contract for the construction of its power station, office, carbarn and shop to JOSEPH WILLIAMS & CO., of Louisville, Ky. Estimated cost, $25,000. S. S. Bush, of Louisville, Ky., is Vice-Pres. and Gen. Mgr.

McEWEN, TENN.—An electric light plant is to be erected here. L. D. Baker is interested in the work.

MEMPHIS, TENN.—The Memphis Street Ry. Co. will erect a power-house of steel construction at a cost of $40,000. E. W. Ford is Gen. Supt.

COVINGTON, KY.—The Council has accepted the plans for the proposed municipal electric light plant, prepared by Owen Ford, Security Bldg., St. Louis, Mo. The estimated cost is $106,000.

MAYFIELD, KY.—The Mayfield Water & Light Co. is contemplating extensive improvements and increasing the capacity of its plant. A new power-house will be erected and a 400 or 500-KW. direct-connected unit installed. J. W. Landrum is Secy. and Mgr.

CINCINNATI, OHIO.—Robert Gilmore, Arch., has completed plans for a water-works and power-house building for the new town of Beechwood, which is to be erected by the Kirby Realty Co. It is to be 56 x 100 ft. Estimated cost, $80,000.

MILFORD, OHIO.—John W. Hill & Sons, of Cincinnati, have prepared plans for the erection of a power plant for the Little Miami Light, Heat & Power Co., on Little Miami River. The estimated cost is $20,000.

EAST LIVERPOOL, OHIO.—The East Liverpool Traction & Light Co. will erect a new power station on Island Run, a branch of Beaver Creek, this being decided upon because the plant would adjoin extensive coal properties which the company secured some time ago. Van Horn Ely is Pres.

ROSSMOYNE, OHIO.—See under Water-Works and Irrigation.

PAW PAW, MICH.—Bids are asked until 1 p. m., Sept. 17, by the village council for the erection of a dam and hydro-electric power plant and water and electric light improvements in the Paw Paw River. Wm. H. Mason, Village Clk.

PARIS, ILL.—It is proposed to erect an electric light plant here. W. T. Blackburn, City Engr., has been sent to St. Joseph, Mo., to look over the Magnetite system used there.

NASHWAUK, MINN.—The contract for the construction of the municipal electric light plant has been awarded to the Burgess Electric Co., of Duluth. The equipment for the plant will consist of one 50-KW. direct-current Westinghouse generator, an Ideal engine of 85 HP., and a 100-HP. boiler. John H. Carlson is Village Clk.

WELLINGTON, KAN.—It is stated that an election will probably soon be held to vote on issuing $50,000 in bonds for water-works and an electric light plant.

WILLISTON, N. DAK.—See under Water Supply and Irrigation.

CAPE GIRARDEAU, MO.—The Cape Girardeau Water-Works & Electric Light Co. has awarded the contract for the construction and equipment of its proposed gas plant to FRANK D. MOSES, 7 North Stockton St., Trenton, N. J. Thos. Fox is Supt.

GAINESVILLE, TEX.—A charter has been granted to the Gainesville Gas & Electric Co., with a capital stock of $250,000. The incorporators are G. M. Moran, F. McKenrie, Edward Piford, Fletcher S. Heath and George F. Goodnow.

TERRELL, TEX.—It is reported that an electric light plant will be erected here at a cost of $15,000. J. D. Smith, of Terrell, is Engr.

SPOKANE, WASH.—The Hydro Electric Development Co. is to develop the water power of Spokane, and construct a dam and power plant.

The Spokane Western Power & Traction Co. has been incorporated with a capital of $3,000,000. It is to build a power plant. The first board of trustees consists of F. O. Adams, Chicago, Ill.; A. A. Dunphy, H. S. Soolfirl, G. C. Rhoadehamel, and L. L. Allbaugh, of Spokane.

BAKER CITY, ORE.—The Baker Light & Power Co. will build an additional reservoir at the power plant on Rock Creek for reserve purposes. It is to be 150 × 300 ft. Isaac W. Anderson, Spokane, Wash., is Gen. Mgr.

PASADENA, CAL.—A municipal electric light plant is to be erected here.

SALT LAKE CITY, UTAH.—Applications have been made by Willard F. Snyder for the flow of 1091 acre-feet to be diverted from the Beaver River. The power is to be used to operate an electric light and power plant to be erected here.

EMERSON, MAN.—The Rosseau-Howard Power Co. is preparing plans to develop 16,000 HP. on the Rosseau River here at a cost of $000,000. The power plant will cost $300,000.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

HAVERHILL, MASS.—The contract for constructing a steel and concrete bridge over the Hawkes River, at Haverhill, has been awarded to JAMES E. WATKINS, of Amesbury, Mass., at $5,220.

WELLESLEY, MASS.—W. H. MAGUE, of West Newton, Mass., has been awarded the contract of reconstructing the Washington St. bridge. The work on the bridge will commence immediately.

PROVIDENCE, R. I.—The New York, New Haven & Hartford R. R. Co. has awarded to HOLBROOK, CABOT & ROLLINS, 6 Beacon St., Boston, a contract for preliminary work in connection with the erection of a bridge at Providence, which will be required for the tunnel at that point. McCABE & BIHLER, Tacoma, Wash., have the contract for the tunnel which, it is reported, will cost about $2,000,000 and require two years' work.

PHILADELPHIA, PA.—H. H. Quimby, Engr. of Bridges, advises us that the following contracts were let, Aug. 28, by Thomas L. Hicks, Dir. Dept. Pub. Wks., for constructing bridges as follows: Double-track railway bridges at Mount Pleasant Ave., Chillenna and Gorgas Sts., to RICHARD WALSH, 5922 Tacony St., Philadelphia, at $31,283, $31,139 and $30,562, respectively; reinforced concrete arch at 58th St., to FILBERT PAVING & CONSTRUCTION CO., 818 Pennsylvania Bldg., at $28,720; concrete arch at Cresson St., to REILLY & RIDDLE, Walnut Lane and Oros St., at $17,900.

PHILADELFHIA, PA.—It is reported that the OSWEGO BRIDGE CO. has contract for building seven railroad bridges in Pennsylvania.

ROME, GA.—Bids are asked by the Board of Commissioners of Roads and Revenues of Floyd County, until Oct. 2, for erection and completion of a bridge over Little Cedar Creek, near Vann's Valley. J. F. Hillyer is Clk.

GREENSBORO, MD.—Bids are asked until noon, Sept. 25, by the Commissioners of Caroline County, for erecting a reinforced concrete bridge over the Choptank River, at Greensboro. William D. Uhler is Road Engr. (Advertised, Engineering News.)

CHATTANOOGA, TENN.—It is reported that the Queen & Crescent Route will ask for bids for reconstruction of its high-bridge across the Kentucky River near Chattanooga, also for reconstruction of bridge across the Tennessee River on its line between Oakdale and Somerset, Ky. Wm. Doyle is Supt. Bridges and Bldgs., Somerset, Ky.; New York offices, 80 Broadway.

JOHNSTOWN, OHIO.—Bids are asked until Sept. 25 for constructing superstructure of bridge 71½ ft. long and 16 ft. wide near this town. The contractor will be required to furnish plans and specifications. T. C. Jay is Secy.

HAMILTON, OHIO.—We are officially advised that, on Aug. 28, Charles Pabst, County Audr., awarded contract to the CAPITOL CONSTRUCTION CO., Columbus, Ohio, at $3,940, for constructing automatic swing bridges at Lincoln Ave. and Hensley St., over the Miami and Erie Canal.

JACKSON, OHIO.—The WYNKOOP & McGORMEY CO., Toledo, Ohio, on Aug. 25, secured contract for constructing the Veach Ford bridge, in Jackson Township, at $4,800.

EUCLID, OHIO.—Bids are asked until 11 a. m., Sept. 22, by the Commissioners of Cuyahoga County, for constructing steel masonry arch in Euclid Township. Julius C. Dorn is Clk.

KOKOMO, IND.—The Commissioners of Howard County contemplate construction of a new bridge over Wildcat River, at Lafountain St.

INDIANAPOLIS, IND.—Bids are asked until 10 a. m., Sept. 17, by the Commissioners of Marion County for constructing bridges and culverts throughout the County. C. J. Clark is County Audr.

FULTON, ILL.—The contract for rebuilding the Ave. G. bridge at Sterling, has been awarded by the Bridge Commission to the PENN BRIDGE CO., of Beaver Falls, Pa. The amount of the bid was $37,700, of which $18,850 will be paid by Whiteside County. The bridge company is to clear the river of the wreckage this fall, and the work of rebuilding the bridge will be commenced next spring.

GENESEO, ILL.—We are officially advised that on Aug. 28 the contract for steel work on four bridges in Geneseo Township was awarded to the ELKHART BRIDGE CO., Elkhart, Ind., at $9,587. The contract for constructing abutments was let to the JOLIET BRIDGE CO., Joliet, Ill., at $8.50 a cu. yd. A. W. Johnson is State Highway Comr., Springfield, Ill.

WICHITA, KAN.—Bids are asked until Sept. 17, by R. N. Dorr, City Clk., for constructing six steel bridges. The structure will range from 40 to 80 ft. in length, and will cost about $16,683.

ROCK CREEK, KAN.—An iron bridge will be erected across Rock Creek, west of the school house, scon.

STERRETT, IND. T.—Missouri, Kansas & Texas Ry. System is reported to be undertaking construction of a concrete culvert of large size near Sterrett. S. B. Fisher, at St. Louis, Mo., is Ch. Engr.

HUNTLEY, MONT. — THE SECURITY BRIDGE CO., Minneapolis, Minn., has secured contract, at $34,680, for constructing a 2-span steel and concrete bridge near Huntley. J. W Fish is County Clk., Billings.

ST. LOUIS, MO.—Hillsborough, Kimmswick & Northern Ry. Co. will expend $300,000 for the construction of a steel bridge. It will erect boiler and machinery house in connection with the construction work involved, and will purchase considerable machinery, tools, etc., needed in bridge construction. Lichter & Jens, 1318 Chemical Bldg., are the Engrs.-in-Charge.

VAN BUREN, ARK.—It is reported that work will begin on the bridge across the Arkansas River, at Van Buren, within the next 60 days. The bridge is being erected for the Fort Smith Light & Traction Co., and it is to give the electric car line entrance to Van Buren.

SILOAM SPRINGS, ARK.—A contract for construction of a steel bridge across Sager Creek has been awarded to the MISSOURI VALLEY BRIDGE CO., of St. Joseph, Mo.

BEAUMONT, TEX.—The Kenefick-Hammond-Quigley Construction Co., of this city, announces that it is ready to commence on work connected with the Colorado, Southern, New Orleans & Pacific R. R. The work consists of driving piles, and framing and erecting 28,000 lin. ft. of trestle at the crossing of the Atchafalaya River bottom. The material required is about 280,000 lin. ft. piles and 4,000,000 ft. timber.

NEWKIRK, OKLA.—Bids are asked until Sept. 7, by C. H. St. Clair, County Clk., for constructing ten steel span bridges.

ELK CITY, ORE.—Bids are asked until 10 a. m., Oct. 3, by the County Court, for rebuilding the south approach of the bridge spanning Big Elk River, at Elk City. Ira Wade is County Clk.

WALLA WALLA, WASH.—It is reported that F. A. NELSON has been awarded contract by the City Council for constructing a bridge at Fourth St., at $6,195.

TWISP, WASH.—Contracts for building two combination steel bridges have been awarded to WILLIAM OLIVER & CO., of Spokane. One bridge is to cost $3,780, which will span the Methow at Libby's, eight miles down the river, and the other, to cost $5,220, will cross the same stream at Twisp.

REDDING, CAL.—A concrete bridge will be erected at the North St. crossing near the Redding cemetery. The City Trustees in session Aug. 20, ordered the City Engineer to draw the plans and prepare speecifications so that the work could be let out by contract.

MODESTO, CAL.—The ATLANTIC, GULF & PACIFIC CO., Hellman Bldg., Los Angeles, has contract for placing concrete piers under steel and concrete bridge, to be built over the Tuolumne River, near Empire. The bridge is being built for the Atchison, Topeka & Santa Fe Ry. Co. A. F. Robinson is Engr. of Bridges, Chicago, Ill.

LOS ANGELES, CAL.—The MERCEREAU BRIDGE CO. has secured contract to construct a steel plate girder bridge, 200 ft. long, with concrete foundations and reinforced concrete floors, for the Pacific Electric Ry. Co. The bridge will be built on the line of the new cut-off between Los Angeles and Monrovia Junction. H. E. Huntington, 71 Broadway, New York, N. Y., is Pres. and Gen. Mgr.; George E. Pillsbury is Ch. Engr., Los Angeles.

LEWISTON, IDAHO. — McCLEARY & WILLARD, of Spokane, Wash., have been awarded contract to construct a 700-ft. bridge over the Clearwater River, at Lewiston, for the Oregon, Washington & Idaho Ry. Co. About 1,200 tons of steel will be used.

QUEBEC, QUE.—The Commissioners of the Transcontinental Ry. have awarded to the DOMINION BRIDGE CO., Montreal, contract to construct steel viaduct across the Cap Rogue Valley, near Quebec, at $358,476. Contracts for bridges on the Quebec-La Tuque and the Winnipeg-Superior divisions will be reported upon soon. S. H. Parent, Ottawa, Ont., is Chmn. of Comn.; H. D. Lumsden, Ottawa, is Ch. Engr.

CENTREVILLE, ONT.—Bids are asked until Sept. 15, by E. F. Hinch, Clk. of Township of Camden, for constructing steel bridge over Salmon River, for removing pier, and building 12-ft. wing wall.

OTTAWA, ONT.—The Trans-Continental Ry. will require steel bridges on concrete foundations, in the Province of Quebec, to be delivered to the Commission as follows: Bridge crossing River St. Anne, to be delivered January 1, 1907; bridge crossing River Noir, February 1; bridge crossing River Charest, March 1, and bridge crossing River Batiscan, April 1. S. N. Parent, Ottawa, is Chn. of Comn.; P. E. Ryan is Secy.; H. D. Lumsden is Ch. Engr. A. E. Doucet is District Engr., at Quebec.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—The Seamen's Church Institute of this city will erect a seamen's building at a cost of $1,000,000. It is to be a 10-story building.

NIAGARA FALLS, N. Y.—The contract for the erection of the office building to be erected at Falls and First Sts. has been awarded to BRAAS BROS. It is to be a 6-story brick and steel building and 45 × 132 ft. J. R. White is Arch. Estimated cost, $100,000.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Sept. 17, by the Superintendent of School Buildings for ten school buildings and general alterations. C. B. J. Snyder is Supt. of School Bldgs.

TRENTON, N. J.—S. W. Mather was the lowest bidder on the new Tyler St. school. His bid was $128,730.

McKEESPORT, PA.—Dr. T. L. White is to erect a new theater on Walnut St. The contract has been awarded to T. W. FINN, of Altoona. Estimated cost, $175,000.

PHILADELPHIA, PA.—The contract for erecting the new telephone exchange building, at 1632-36 Diamond St., has been awarded to THE CHAS. McCAUL CO., Lancaster and Media Sts. Estimated cost, $40,000.

A new building is to be erected at Broad and Brown Sts. at a cost of $250,000, for Temple College.

PITTSBURG, PA.—The contract for erecting the machine building at the Carnegie Technical Schools at Schenley Park has been awarded to EDWIN GILBERT & CO. It is to be a 3-story building, 90 × 192 ft. Estimated cost, $125,000.

WEST CHESTER, PA.—Bids are asked by the First National Bank for the erection of a bank and office building. It is to be a 6-story, brick and steel building of fireproof construction. Estimated cost, $100,000.

BALTIMORE, MD.—Haskell & Barnes, Archs., Central Savings Bank Bldg., are preparing preliminary plans for Ingram Memorial Chapel to be erected at McComas and Oliver Sts. by the Church Extension Society of the Methodist Episcopal Church, Bible House, 8 East Fayette St.

ANNAPOLIS, MD.—The following bids were received at the office of the Secretary of the Navy, Washington, D. C., for altering and remodeling the boathouse at the Naval Academy into a gymnasium: Snare & Triest Co., 143 Liberty St., New York, $147,800; Noel Construction Co., Baltimore, Md., $133,500.

WASHINGTON, D. C.—Arthur B. Heaton, 1319 F St., N. W., Washington, D. C., is Arch. for the new $300,000 hotel, "Congress Hall," to be erected on New Jersey Ave., between B and C Sts., S. E. The building will be of brick and stone, fireproof, eight stories in height. Mentioned Aug. 23.

B. Stanley Simmons, Arch., 931 F St., N. W., Washington, is ready for bids for the construction of a store and office building at 1331-3 G St., N. W., for Mr. C. E. Foster. The building will be of brick and stone, three stories high, 45 × 100 ft.

Bids are asked until 2 p. m., Oct. 11, by the Quartermaster, Washington, D. C., for the construction of plumbing, drainage, gas piping, heating and ventilation, electric conduits and wiring system, electric elevator plant and vacuum cleaning system of building for The Walter Reed Army General Hospital, Washington, D. C.

WASHINGTON, D. C.—The Hazelhurst Electric Co., 194 King St., Charleston, S. C., was the lowest bidder for the electric wiring in joiner shop at the Navy Yard, Charleston. Its bid was $2,414.

The following bids were received at the Union Trust & Storage Co. for the construction of a building for the Union Trust Co., at 15th and H Sts., Washington. Specifications call for bids on (a) granite base and marble superstructure, and (b) granite exterior throughout. Time, 14 months: Edwin Gilbert & Co., Philadelphia: (a) Mt. Airy granite base, $785,965; same with Georgia marble, $765,965; same with white Alabama marble, $805,965; (b) Mt. Airy granite throughout, $715,965. Ambrose B. Stannard, New York: (a) Vermont marble, $757,973; time, 24 mos.; Columbia marble, $812,973; time, same; (b) Mt. Airy granite, $662,973 and $668,973; time, 18 mos.. Richardson & Burgess, Washington: (a) Kennesaw marble, $734,358; Cherokee marble, $727,358; (b) Milford granite base, Mt. Airy granite superstructure, $651,526; Mt. Airy granite throughout, $648,764. Noel Construction Co., Baltimore: (a) Mt. Airy granite base, Beaver Dam or Georgia marble, $780,000; (b) Mt. Airy granite throughout, $695,000; (c) granite base, Bedford limestone superstructure, $685,000; same, with Green River limestone, $700,000. Thompron-Starrett Co., New York: (a) Kennesaw marble, $748,400; Cherokee marble, $742,100; (b) New Hampshire white granite throughout, $699,900; (c) Indiana limestone, $618,000; time, 12 months. Cramp & Co., Philadelphia: (b) Clark's Island granite throughout, $654,846; (a) Vermont marble, $765,179. James L. Parsons, Washington: (a) Milford granite, Beaver Dam or Georgia marble, $760,000; (b) Mt. Airy granite throughout, $686,000: New Hampshire granite throughout, $742,000; $12,000 reduction in two years allowed. John H. Nolan, Washington: (a) Vermont marble, $795,708; (b) $700,718. Fissell & Wagner, Washington: (a) Milford granite, Kennesaw marble, $780,400; Milford granite, Vermont marble, $793,900; Mt. Airy granite, Kennesaw marble, $775,800; (b) Milford base with New Hampshire white granite, $712,500; Mt. Airy granite throughout, $694,700. Wells Bros. Co., New York: (a) Blue Ridge marble, $713,000; Vermont marble, $785,000; (b) Mt. Airy granite exterior, $634,000; 13 months. Wm. P. Lipscomb & Co., Washington: (a) $748,568; (b) Mt. Airy granite, $66,338; 18 months. Norcross Bros. Co., Washington: (a) Georgia marble, $817,026; Plateau white marble, $823,026; (b) Troy white granite, $807,026; Milford pink granite, $812,000; Stone Creek granite, $804,000. Geo. A. Fuller Construction Co., New York: (a) Blue Ridge (Cherokee) marble, $705,966; (b) New Hampshire white granite throughout, $660,966; Indiana limestone superstructure, $900,966.

WINCHESTER, VA.—Contracts are soon to be awarded for the erection of the Handley Memorial Library. Estimated cost, $250,000.

RALEIGH, N. C.—The North Carolina Grand Lodge is to erect a new temple on Fayetteville St. Estimated cost, $100,000. Francis D. Wilson is Grand Master.

CORDELE, GA.—City has voted affirmatively as to the proposed $80,000 bond issue for the erection of court-house and jail.

MACON, GA.—Plans have been completed for a new compress and warehouse. It is to be the largest in the South. Estimated cost, $250,000.

GOSHEN, IND.—The commissioners of Elkhart County are preparing to ask for bids for the remodeling of the court-house. The estimated cost is $75,000. The plans practically call for a new court-house.

INDIANAPOLIS, IND.—Plans have been ordered for the construction of a new city hall and coliseum to be built in this city The Board of Public Works will ask for bids as soon as plans are approved. The estimated cost is $400,000.

SOUTH BEND, IND.—H. G. CHRISTMAN & CO. have been awarded the contract for the construction of the Y. M. C. A. building in this city. The consideration is $250,000. The building is a gift of the Studebakers.

DETROIT, MICH.—The Independent Brewing Co. will erect a new building on Springwells Ave., near the Michigan Central Railroad, in West Detroit. The estimated cost is $100,000. John Call is Pres.; William F. Zoeller is Vice-Pres.; William Unruh is Secy. and Treas.

The contract for the steel work of the Ford building on Griswold and Congress Sts. has been awarded to THE AMERICAN BRIDGE CO., at $450,000, and for the foundation to JOSEPH HUGHES, of this city, for $50,000. Noted in issue of Aug. 23.

D. M. Ferry, Sr., is to erect a building for the firm of Newcomb & Endicott, at an estimated cost of $400,000.

ESCANABA, MICH.—The contract for the erection of the 3-story brick and stone school building has been awarded to J. D. LINDSAY. Estimated cost, $90,000. J. D. Chubb, of Calcago, is Arch. Mentioned Aug. 30.

CHICAGO, ILL.—Negotiations have been nearly completed for the erection of a building at Franklin and Congress Sts., to cost about $400,000. It is to be a 10-story steel building. It is to be erected by the Lamax Estate for Kohn Bros.

The contract for the erection of the building for the Juvenile Court, on Ewing and Halsted Sts., has been awarded. Estimated cost, $75,000.

LAKE FOREST, ILL.—Plans have been completed for the erection of the Deerpath Inn by Frost & Granger, 806 The Temple Bldg.

BUTTE, MONT.—A permit has been issued for the erection of a bank building for the State Savings Bank. It is to be a steel, stone and brick building. Estimated cost, $250,000.

ST. LOUIS, MO.—A building for the Third National Bank is to be erected at Broadway and Olive St. It is to be an 18-story steel, brick and granite building. Estimated cost, $2,000,000. Eames & Young, Chestnut and Seventh Sts., are the Archs.

Plans are being prepared for a commercial building to be erected on Chestnut St., near 18th St. It is to be an 8-story building, 90 × 100 ft. Estimated cost, $125,000. It will be erected under the management of Loewensteln Bros.

AUSTIN, TEX.—The contract for the erection of the proposed city hall has been awarded to BELGER & BRYDSON.

WEISER, IDAHO.—W. A. Pleasants contemplates the erection of a $100,000 hotel in this city in the near future.

VANCOUVER BARRACKS, WASH.—Bids are asked until Sept. 24, by the Constructing Quartermaster, U. S. A., for furnishing electric light fixtures for two double barracks and three double sets of officers' quarters.

SANTA CRUZ, CAL.—Fred. Swanton, Arch., has prepared plans for a new casino and bath house and theater. It is estimated that $235,000 will be spent for the buildings, pumping plant and cold storage.

REDWOOD CITY, CAL.—The bond election recently held in this county to raise $150,000 to rebuilt and furnish the county court-house carried by a large majority.

OAKLAND, CAL.—A building is to be erected by the Odd Fellows of this city. It is to be a 9-story concrete and stone building. Estimated cost, $250,000. Samuel B. Zimmer, 578 East 22d St., is Arch.

LOS ANGELES, CAL.—Dennis & Farwell, Archs., 411 Currier Bldg., have prepared plans for the new Science High School. The contract for the erection of the building has been awarded to the F. O. ENGSTROM CO.

SAN FRANCISCO, CAL.—C. A. Meussdorffer, Arch., Parrott Bldg., has prepared plans for a 4-story office building to be erected at Van Ness Ave. and Fulton St. It is to be erected by the Selig estate at a cost of $82,000.

The Mark Sheldon Co. is to erect a 7-story building at Market and First Sts. G. B. McDougall, 330 Pine St., is Arch. Estimated cost, $300,000.

OTTAWA, ONT.—Bids are asked until Sept. 11, by Fred Gelinas, Secy. Board Public Works, for an addition to Supreme Court Library. Estimated cost, $50,000.

HALIFAX, N. S.—A bank building is to be erected in this city. It is to be a 4-story building, 40 × 81 ft. Estimated cost, $100,000. Albert Kahn is Arch.

VANCOUVER, B. C.—A court-house is to be erected at once in this city. It is to be a 2-story building of dressed stone. Estimated cost, between $200,000 and $300,000. F. M. Rattenbury, of Victoria, is Arch.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

DANFORTH, ME.—C. N. TAYLOR has been awarded contract to construct a water system at Danforth. There are to be a pumping station and reservoir, as well as several miles of piping, and the total cost of the plant is estimated at about $30,000.

PALMER, MASS.—Plans are being prepared by the Palmer Water Co. for building a 13,000-gallon reservoir.

STERLING, MASS.—We are officially advised that the following bids were received Aug. 27 by the Metropolitan Water and Sewerage Board, 1 Ashburton Pl., Boston, for constructing four filter beds at Sterling, as noted in issue of Aug. 16: Martin Murphy, Clinton, Mass., $18,728; Bruno, Salamone & Pettiti, Boston, $14,190; Magee, Macomber & Co., Taunton, Mass., $12,927; Row & Perini, South Framingham, Mass., $10,230; A. McKENZIE (awarded contract), Leominster, Mass., $9,804. William A. Davenport is Secy.; Frederic P. Stearns is Ch. Engr.

NYACK, N. Y.—It is reported that the Municipal Water Commission will advertise on Oct. 1 for bids for the first section of the new aqueduct.

NEW YORK, N. Y.—Bids are asked until 10.30 a. m., Sept. 10, by John H. O'Brien, Fire Comr., for furnishing a 50-ft. water tower.

TRENTON, N. J.—The Water Commission has awarded contract for constructing ascending main from the pumphouse to reservoir, to A. K. BUGBEE, 135 East State St., Trenton, at $133,550. The other bidders were: Antonio De Lucio, $136,526; John Hurley, $135,466; Lewis Lawton & Sons, $134,920; McGovern Construction Co., $134,700.

PITTSBURG, PA.—The contract for installing 66-in. steel riveted water main around Highland reservoir has been let to W. E. HOWLEY, at $44,350, the estimated price being $45,000. This is the second time bids for the work have been opened; the previous time the lowest bid was $65,000.

PHILADELPHIA, PA.—Bids were received Aug. 22, by Thomas L. Hicks, Dir. Dept. Pub. Wks., for completing the Torresdale filter plant. The bids on the various items were as follows: To build cofferdam in place, John McMenamy, Harrison Bldg., $87,000; R. P. Bennis, $34,000; David Peoples, Betz Bldg., $32,900, and J. H. Louchheim, Mint Arcade Bldg., $60,000. Excavation of 5,100 cu. yds. of dirt, John McMenamy, $2.25; R. P. Bennis, $1.40; Peoples Bros., $2.50, and J. H Louchheim, $3. For 460 cu. yds. of rock backfill, J. McMenamy, $2.25; R. P. Bennis, $1.50; David Peoples, $2, and J. H. Louchheim, $3. For 3,230 cu. yds. of backfilling, J. McMenamy, $1.50; R. P. Bennis, $1; Peoples Bros., $1.50, and J. H. Louchheim, $3. For 2,568 cu yds. of concrete, J. McMenamy, $12; R. P. Bennis, $18; David Peoples, $10, and J. H. Louchheim, $9.50. For 252,210 lbs. of steel bars, J. McMenamy, 4½ cts. per pound; R. P. Bennis, 6 cts.; David Peoples, 7 cts., and J. H. Louchheim, 5½ cts. For nine tons of cast-iron water pipe. J. McMenamy, 4 cts. per pound; R. P. Bennis, $40 per ton; Peoples Bros., 6 cts. per pound, and J. H. Louchheim, 5 cts. per pound. For two-gate houses, John McMenamy, $43,000; R. P. Bennis, $24,900; David Peoples, $42,000, and J. H. Louchheim, $39,000. For gates and motors, John McMenamy, $25,000; R. P. Bennis, $22,000; David Peoples, $17,552, and J. H. Louchheim, $24,000. Maj. Casslus E. Gillette is Ch. Engr. Filtration Bureau.

BALTIMORE, MD.—Bids are asked until Sept. 10, by the Baltimore County Water & Electric Co., 411 East Baltimore St., for constructing reinforced concrete reservoir, at Towson, Baltimore. Plans and specifications are on file at office of Engineering News, New York. A. H. Wehr is Secy. and Treas.

WASHINGTON, D. C.—Bids were opened Sept. 1 at the office of the Commissioners of the District of Columbia for 600 tons of 8-in. c.-i. water pipe, as follows: Lynchburg Foundry Co., Lynchburg, Va., $35.25 per ton; United States Cast-Iron Pipe & Foundry Co., Philadelphia, no price stated; Central Foundry Co., New York, 81 cents per ft. (in-

VIRGINIA BEACH, VA.—The city has voted affirmatively on the proposed issuance of bonds for $72,000 to build water-works, construct sewerage system, grade and pave streets.

CHARLESTON, S. C.—The following bids were received by the Bureau of Yards and Docks, Navy Dept., for pump well, house over same, and culverts, at Dry Dock No. 1, Navy Yard, Charleston, S. C. (Specification No. 1,508). Bids were received Sept. 1: C. M. Leach, Navy Yard, Boston, Mass., Item (1) $75,597, (2) $63,973, (3) $13,553, (4) $79,873-67,973, (5) $100. The Simons-Mayrant Co., 16 Broad St., Charleston, S. C., Item (1) $89,612, (2) $64,700, (3) $24,912.

CARENCRO, LA.—It is reported that the city will install a water-works system at a cost of $11,179.

NEWARK, OHIO.—We are officially advised that the Riggs & Sherman Co., 613 The Nasby, Toledo, Ohio, has been engaged to direct all engineering work in connection with the municipal water-works system to be installed at Newark.

CINCINNATI, OHIO.—Bids are asked until Sept. 28, by the Board of Trustees, Commissioners of Water-Works, for laying pipe in Eggleston Ave. and Third St. We are officially informed that bids received for same work Aug. 21 were all rejected. G. N. Benzenburg is Des. Engr.; Elmer G. Prior is Clk.

ROSSMOYNE, OHIO.—Robert Gilmore, Arch., has completed plans for a water-works system and power house for the new town of Beechwood, which is being erected by the Kirby Realty Co. between Deer Park and Rossmoyne, on the Cincinnati, Lebanon & Northern Ry. The dimensions of the building will be 108 × 56 ft., and its cost is estimated at $60,000. Engineers are now drilling for water, and as soon as it is struck in sufficient quantities the company will order the erection of the water-works. This building will be equipped with machinery to generate electricity to illuminate the entire town. The company has already disposed of a large portion of the lots, and several residences will soon be started in the new suburban hamlet.

PAW PAW, MICH.—Bids are asked until Sept. 17 for installing a 750,000-gallon power pump and an electric drum. A. T. Maltby, 805 Great Northern Bldg., Chicago, Ill., is Des. Engr.; William H. Masen is Village Clk.

TINLEY PARK, ILL.—Bids are asked until 8 p. m., Sept. 10, for laying about 1,200 ft. water mains in this village. C. Andres, Jr., is Village Clk.

KEOKUK, IOWA.—The contract for construction of a water plant at the Lee County Poor Farm has been awarded to the DES MOINES BRIDGE & IRON CO., at $3,236.

GARDEN CITY, KAN.—Henion & Hubbell, 61 North Jefferson St., Chicago, to whom the contract for installing pumping apparatus at Garden City had been let by the Secretary of the Interior, have declined to enter into an agreement in accordance with departmental requirements, the company having submitted a proposal in accordance with their own specifications. The Board of Consulting Engineers of U. S. Reclamation Service has recommended that contract be awarded to the next lower bidder, and the Secretary of the Interior has therefore revoked his former action and awarded contract to the CAMDEN IRON WORKS, of Camden, N. J. The contract calls for ten complete units with bronze impellers and General Electric Co. apparatus, for the total sum of $14,440, and the contract may provide that 13 additional units may be purchased for a total cost of $32,800 for the 23 bronze impeller pumps and General Electric Co. apparatus. Charles S. Slichter is Supv. Engr.

Bids are asked until 2 p. m., Sept. 28, at the office of U. S. Reclamation Service, for constructing deep and shallow wells, suction pipes, pumping stations, siphons, concrete lined conduit and fencing. Thomas Ryan is Acting Secy., Washington, D. C. Specifications and bidding sheet are on file at office of Engineering News, New York, N. Y.

WILLISTON, N. DAK.—The Secretary of the Interior has awarded contracts for schedules A, B, C and D, on the power and pumping system, Williston irrigation project, N. Dak. The work on Schedule A, installing boiler plant at Station 1; Schedule B, steam operated pumps at Station 1, and Schedule D, transformers and electrically operated pumps at Station 2, was awarded to the D'OLIER ENGINEERING CO., 121 South Eleventh St., Philadelphia, at $76,229. The contract for Schedule C, furnishing electric generating plant at Station 1, was awarded to the GENERAL ELECTRIC CO., of Schenectady, N. Y., for $41,242. Schedules F and G, transmission line and building for Station 1, were not awarded because, in the opinion of the Secretary of the Interior, the bids submitted were too high.

BRYAN, TEX.—Bryan Light & Water Co. will extend the mains and enlarge the pumping capacity of its water-works system. Cost of buildings and equipment has not yet been decided. Boilers and pumps will be purchased. Louis G. Hester, of Houston, is Engr.-in-Charge.

TECUMSEH, OKLA.—The City has accepted a bid for $60,000 of water-works bonds recently voted, and will arrange to begin at once the construction of the proposed plant.

GRAND JUNCTION, COLO.—The City of Grand Junction will extend its water system between Grand Junction and Kannah Creek. The expenses will be paid with a $300,000 bond issue.

PORTLAND, ORE.—The Secretary of the Interior has approved the contract between D. C. Henny, Engr., U. S. Reclamation Service, on behalf of the United States, and the CHAPMAN VALVE MFG. CO., of Indian Orchard, Mass., to furnish the 36-in. gate valves and accessories to be used in connection with the Okanogan irrigation project, Wash.

PORTLAND, ORE.—Contract has been awarded to the OREGON IRON & STEEL CO., Sherlock Bldg., to furnish 197 tons of c.-i. mains at $39.50 per ton, this being only bid submitted. To connect new district with present distributing district will cost about $8,750.

WEISER, IDAHO.—D. A. Uteer has completed preliminary surveys and prepared plans for the site of the pumping plant and route for the canals for the Snake River irrigation district, which will irrigate 15,000 acres of land on Dead Ox Flat, opposite city on Oregon side of Snake River. Plans call for establishing pumping plant about twelve miles from Weiser. There will be two lifts of water. First will cover 5,000 acres, and second 10,000 acres.

MOOSE JAW, SASK.—This City will install a complete water-works system, contract for constructing which has been let to MASTERTON & FREY, of Moose Jaw. Willis Chipman, 103 Bay St., Toronto, Ont., is Des. Engr. D. McLean is City Clk.

NEW WESTMINSTER, B. C.—The City Council is considering plans in connection with improvements to the water-works system at this city.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

WATERVILLE, ME.—A reinforced concrete sewer will be built here at a cost of $5,000. Percy H. Richardson, Portland Me., is Engr. in charge.

RANDOLPH, VT.—The contract for the construction of the sewer system has been awarded to W. S. TEACHOUT, of Essex Junction, whose bid was $11,444.

BOSTON, MASS.—On Sept. 4, the Metropolitan Water & Sewerage Board received eleven bids for constructing the Stony Brook sewer. The three lowest bids were: Coleman Bros., 15 Court Sq., $36,028; Metropolitan Construction Co., $35,827; T. D. Fallon, $34,210.

CAMBRIDGE, MASS. — The City Council has appropriated $25,000 for the construction of sewers.

NEW CANAAN, CONN.—Bids are asked until noon, Sept. 15, by J. F. Bliss, Warden, for constructing sewer system at New Canaan. E. Worthington, Mead's Block, is Engr. (Advertised, Engineering News.)

BINGHAMTON, N. Y.—Plans are being prepared by Prof. Henry C. Ogden, State Dept. of Health, for the Fourth Ward trunk sewer.

NEW YORK, N. Y.—Bids are asked at the office of the President of the Borough of Brooklyn until 11 a. m., Sept. 12, for constructing various sewers. Bird S. Coler is Pres.

MENANDS (Albany post-office), N. Y.—The following bids were received by the Commissioners of Sewerage and Drainage for sewer to be laid along the canal: Grattan Construction Co., Cohoes, N. Y., $8,591; Jas. J. Connors, Albany, N. Y., $7,828; John Dovle, of Albany, $7,434. JOHN DOYLE received the contract.

ST. JOHNSVILLE, N. Y.—Bids are asked until 3 p. m., Sept. 22, by the Board of Trustees, for constructing entire sewer system for this village. (Advertised, Engineering News.)

NARBERTH, PA.—Bids are asked until 8 p. m., Oct. 1, by E. C. Hawley, Clk. of Council, for constructing sewer system for this borough. Albright & Mebus, Land Title Bldg., Philadelphia, are Engrs. (Advertised, Engineering News.)

BALTIMORE, MD.—Bids are asked by the Board of Awards until Sept. 10, for building storm-water drains, approximately 43,250 lin. ft. of 12 to 60-in. drains; 6,120 lin. ft. of 12-in. inlet connections; 220 manholes; ten drop manholes and 232 inlets. Specifications and plans may be obtained from office of sewerage commission, 904 American Bldg., Baltimore, Md.

DENTON, MD.—Bids are asked by the city clerk, until Sept. 12, for constructing sewer system. Work to embrace 1.2 miles of pipe sewers from 8 to 24 ins. in diameter. C. Lestie Walls is City Clk.

WASHINGTON, D. C.—Bids are asked until Sept. 11 by the Commissioners of the District of Columbia for the construction of a sewer in the District of Columbia. D. C. Henry, B. F. MacFarland, Henry L. West, Jay J. Morrow, Acting Commissioners, D. C.

VIRGINIA BEACH, VA.—See under Water Supply and Irrigation.

GREENVILLE, N. C.—City will begin the construction of proposed sewerage system in October. J. A. Dunlap is Supt. W.-W.

WOODLAWN, ALA.—The city has awarded contract at $30,000 to SULLIVAN & LONG for construction of proposed sewerage system.

MONTGOMERY, ALA.—The $20,000 contract for the construction of the sewer system has been awarded to BLACK, LAIRD & CO., of New Orleans, La.

COVINGTON, TENN.—Specifications and bidding sheet for sewers to be constructed at Covington, as advertised Aug. 30, are on file at office of Engineering News, New York, N. Y. Bids are asked until Sept. 11.

PADUCAH, KY.—Bids are asked until 3 p. m., Sept. 10, by L. A. Washington, City Engr., for constructing about seven miles of combined sanitary and storm-water seyers. (Advertised, Engineering News.)

CINCINNATI, OHIO.—Martin and Noelting, 319 West McMicken Ave., were the lowest bidders for constructing 1,472 ft. of sewer on Riddle Road.

CLEVELAND, OHIO.—Bids are asked at the office of the Secretary of the Board of Public Service, No. 105 City Hall, until noon, Sept. 17, for the construction of various sewers. A. R. Callow is Secy.

CONNEAUT, OHIO.—The following bids were received by I. F. Lininger, City Engr., for constructing various sewers: H. A. Strauss, Wheeling, W. Va., $8,995; Jas. P. Callahan, Jamestown, N. Y., $10,286, and Bartone & Phill, Conneaut, Ohio, $11,579.

NEW BREMEN, OHIO.—See under Streets and Roads.

PIQUA, OHIO.—The contract for the construction of the East End sewer has been awarded by the Board of Public Service to McCARTY & CO., at $150,377.

KOKOMO, IND.—Bids are asked by the Board of Public Works until noon Sept. 10, for the construction of the Brass sewer. W. T. Meek is City Clk.

ADRIAN, MICH.—The following bids were received by the City Council Aug. 23, for the construction of storm water sewers. John Wagner & Son, $97,134; Hipskin & Sons, $83,435; Kaumier Bros., $101,302, and Ferguson & Purcell, $90,361. The bids were all rejected for being in excess of the $75,000 which had been appropriated for the work.

FARGO, N. DAK.—Bids are asked until 5 p. m., Sept. 7, by the city auditor for the construction of a 12-in. lateral sewer on South Fifteenth St. in sewer district No. 3. N. C. Morgan, City Audr.

NEW CAMBRIA, MO.—Plans have been prepared for the Charlton Drainage District No. 1, for a drainage ditch reclaim 90,000 acres of land. Estimated cost $90,000. W. G. Walker, of Macon, Mo., is Engr. in Charge.

PINE BLUFF, ARK.—Bids asked until Sept. 10 for constructing sewers in district No. 9 this city. J. Parker is City Engr.

ARGENTA (Little Rock p... office), ARK. —The city is contemplating construction of a combined storm and sewer to cost about $35,000: R. E. ... of Pub. Wks.

EL PASO, TEX.—Plans ... been made for the construction of a sewer system under Franklin and Missouri ... to cost $100,000.

BALLARD, WASH.—The ... Council has awarded the contract for ... constructing the Polk St. sewer to H. DA... FROM for $4,590.

PORTLAND, ORE.—Bids are ... asked by W. Douglas Taylor, City Engr., ... Sept. 22 for constructing a storm sewer ... improvement district No. 17. Estimated ... $24,000.

OAKLAND, CAL.—It is reported that the city will rebuild its entire sewer ... that the system. It is estimated that the improvement will cost $1,000,000.

SAN MATEO, CAL.—The contract for constructing a sewer through Burlingame Park has been awarded by the Improvement Co. to WILLIAM HEAFEY. Estimated cost, $10,000.

PESTON, ONT.—By-laws have been carried here to establish water-works and sewerage systems costing $73,000.

FORT FRANCES, ONT.—Bids are asked by W. H. Elliot, Town Clk., until Sept. 12 for constructing a water-works and sewage system here at a cost of $100,000. John Galt, of Toronto, is Design. Engr.

MOOSOMIN, SASK.—Bids are asked by John Smithers, Secy. and Treas. until Sept. 14 for constructing water-works and sewers. Estimated cost, $90,000.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Bids are asked until 10 a. m., Sept. 12, by Capt. George L. Goodale, Constr. Q. M., Fort Warren, for constructing macadam roads at that post.

SOMERSET, MASS.—Contract has been let to JOSEPH McCORMICK for improving state road in Somerset at $4,887; also to MAGEE & MACOMBER & CO. for road work in Dighton, at $3,259.

BUFFALO, N. Y.—Bids are asked until Sept. 12, by the Department of Public Works, for paving portions of Park View Ave., Sobeeski and Tarsey Sts., and repaving Mariner St. F. A. Ward is Comr.

ALBANY, N. Y.—A list of the contracts awarded for improving state highways is here given. Bids were received on Aug. 27-28, by Henry A. Van Alstyne, State Engr. Details are given in the official advertisement which appeared in Engineering News on Aug. 23-Aug. 30. To ALONZO SCHAUPP, Albany, N. Y., for road No. 158, $6,500. To MORRIS KANTROWITZ, Albany, N. Y.: No. 229, $46,775; No. 287, $35,349. To SCHENECTADY CONTRACTING CO., Schenectady, N. Y.: No. 248, $16,243. To CASEY & MURRAY, Rochester, N. Y.: No. 271, $79,800. To DE GRAFF & HOGABOOM, Bloomington, N. Y.: No. 282, $56,865; No. 312, $36,400. To ORANGE ROAD CONSTRUCTION CO., New York: No. 283, $57,350. To WILLIAM J. DWYER, Syracuse, N. Y.: No. 290, $12,200; No. 328, $17,300. To BOARD OF SUPERVISORS, County of Tompkins: No. 330, $37,397; No. 338, $14,895; No. 454, $33,238; No. 455, $3,851; No. 483, $35,655. To W. S. TYLER, Chittenango, N. Y.: No. 339, $27,487. To J. W. POLCARO, Pittsfield, Mass.: No. 342, $7,500. To JOHN H. GORDON, Albany, N. Y.: No. 389, $28,000. To JOHN WEBBER & SONS, New York: No. 379, $8,868. To THOMAS HUCKNALL, Albion, N. Y.: No. 388, $17,531; No. 387, $36,935. To LAWLER & HAYNES, Poughkeepsie, N. Y.: No. 432, $31,998. To BUCKLEY CONSTRUCTION CO., Plattsburgh, N. Y.: No. 433, $33,987. To PEASE BROTHERS, Flushing, N. Y.: No. 435, $17,500. To J. T. FINCH, Glens Falls, N. Y.: No. 436, $56,000. To MICHAEL F. DOLLARD, Albany, N. Y.: No. 438, $66,666. To T. H. KARR, Troy, N. Y.: No. 439, $33,950. To CLINTON BECKWITH, Herkimer, N. Y.: No. 441, $59,987; No. 476, $44,469. To GOOD ROADS CONSTRUCTION CO., Buffalo, N. Y.: No. 475, $23,500. To HINMAN & SPRAUL, Binghamton, N. Y.: No. 550, $14,699. To H. S. WILLIAMS, Clermont, N. Y.: No. 589, $24,987. To CHAMBERS & GRADY, New York: No. 592, $47,000.

ATLANTIC CITY, N. J.—Bids are asked until 8.30 p. m., Sept. 10, by the City Council, for paving Tennessee and Mansion Aves. with wooden blocks. J. W. Hackney, Bartlett Bldg., is City Engr. (Advertised, Engineering News.)

ORANGE, N. J.—Bids are asked until Sept. 10 by Edward Cheethan, Chn. Com. on Sts., for macadamizing, curbing and flagging portions of Berwyn St. and Tremont Ave.

FLEMINGTON, N. J.—Bids are asked by the Board of Freeholders, at Flemington, until Sept. 21, for macadamizing the public road beginning in the village of Ringoes and continuing to the division line between Flemington and the Towship of Raritan, a distance of about 5½ miles.

PERTH AMBOY, N. J.—Bids are asked until 8.30 p. m., Sept. 17, by the City Council, for grading Inslee St. W. H. Fullerton is St. Comr.

ALTOONA, PA.—We are officially advised that the GANTZ CONSTRUCTION CO. has been awarded 38 contracts for paving about 142,535 sq. yds. with vitrified brick. The total cost is $296,087. Harvey Linton is City Engr.

MILTON, PA.—The GUISE BRICK & STONE CO., it is reported, has secured the contract for 8,000 ft. of curbing and headers, at $6,539.

ASHLEY, PA.—The Wilkes-Barre Construction Co., Wilkes-Barre, Pa., has secured contract, at $2.17 a sq. yd., for paving 9,000 sq. yds. with vitrified brick. Smith & Wells, Wilkes-Barre, are Des. Engrs.; D. E. Frederick is City Clk.

ETNA (Allegheny post-office), PA.—Bids are asked until Sept. 10 at the office of A. R. Dunbar, Boro. Clk., for grading and paving Union Alley, Walnut and Zielsack Sts.

HARRISBURG, PA.—The State Highway Commissioner has opened bids for a stretch of road in Loyalsock Township, Lycoming County, the bidders and the amounts being: Lycoming County, Loyalsock Township, John McMenamy, $38,132; Busch & Stewart, $43,836; the Mary and Co., $36,126; R. A. Malone, $38,821, and Frazer Construction Co., $43,715.

DELAWARE CITY, DEL.—Bids are asked until Sept. 12 for extending granolithic sidewalks at Fort Dupont. Capt. Louis F. Garrard is Q. M.

WILMINGTON, DEL.—Francis A. Price, State Highway Comr., writes that the only bids received Aug. 21 for constructing 2¾ miles of road, known as the Summit Road, were submitted by Stewart & Donohue, Wilmington, at $11,656, and John E. Taylor, New Castle, Del., at $1,143. No contract has been let as yet.

UPPER MARLBORO, MD.—Bids are asked until noon, Sept. 11, by the Commissioners of Prince George's County, at Upper Marlboro, for improving the Livingston Rd., Section 2. Henry St. J. L. Briscoe is Clk.

PORTSMOUTH, VA.—Bids are asked until 8 p. m., Sept. 20, by the City Clerk, for setting 6,000 lin. ft. of curb and paving about 14,000 sq. yds. of street with vitrified brick. (Advertised, Engineering News.)

VIRGINIA BEACH, VA.—See under Water Supply and Irrigation.

WAYCROSS, GA.—Bids are asked until Sept. 22, at the office of A. M. Knight, Mayor, for constructing about 16,750 sq. yds. brick pavement, 6,000 lin. ft. stone curbing, etc.

ANNISTON, ALA.—We are officially advised that a contract for 10,000 sq. yds. of bitulithic pavement has been awarded to the SOUTHERN BITULITHIC CO., of Nashville, Tenn.

DONALDSONVILLE, LA.—We have been officially advised that the SOUTHERN BITULITHIC CO., of Nashville, Tenn., has secured contract for 20,000 sq. yds. of bitulithic pavement.

JOHNSTON CITY, TENN.—S. H. PONDER has contract to place granolithic sidewalks at the Soldiers' Home, the price being $9,818.

PADUCAH, KY.—The Park Commissioners, it is reported, are considering building a park system with boulevards connecting, to cost about $100,000.

CINCINNATI, OHIO.—The following bids were received Aug. 17, by the Board of County Commissioners, Fred Driels, Clk., for paving Michigan Ave. with (a) granite block, (b) wooden blocks, (c) iron slag block: William Scully, Jr., Florence Ave, $111,381; J. A. Eberhart, 19 Wiggins Ave., (a) $119,279; Henkel & Sullivan, Mercantile Library Bldg., (a) $117,214, (b) $107,706; William Heffron Construction Co., 810 Neave Bldg., (a) $131,973, (b) $120,088, (c) $126,432; U. S. Wood Preserving Co., 64 Mitchell Bldg., $102,064.

The following bids were received Aug. 23, by the Board of Public Service, M. J. Keefe, Clk., for grading, setting granite curb and macadamizing the roadway of Erie Ave.: Henkel & Sullivan, 703 Mercantile Library Bldg., $14,092; John M. O'Connor, 84 Builders' Exchange, $11,513; J. Delaney & Co., 1708 East McMillan St., $13,058; John A. Goodman & Co., 2133 Florence Ave., $13,639.

NEW BREMEN, OHIO.—We are officially informed that on Aug. 20 HEFFNER & SON, Celina, Ohio, secured contract, at $7,517, for constructing 4,171 sq. yds. brick pavement. C. W. Williamson, Wapakoneta, Ohio, is City Engr.

SANDUSKY, OHIO.—Bids are asked until Sept. 14, for grading and stoning the Eden Township Road, the Antrim Township Road and the Jackson Road, two miles in all. J. N. Traxer is Audr.

CLEVELAND, OHIO.—Bids are asked until Sept. 12, by the Board of Public Service, A. R. Callow, Secy., for grading, curbing and paving with dressed block Medina stone, on a 6-in. concrete foundation, a portion of Winslow Ave.

CINCINNATI, OHIO.—M. T. FLYNN, 1252 Chase Ave., has been awarded contract for paving 1,569 sq. yds. on Providence St., at $4,436. Bids were received by the Board of Public Service Aug. 27.

Bids are asked by the Board of Public Service until noon, Sept. 11, for paving 12,000 sq. yds. of various streets with asphalt. Estimated cost, $15,000.

Bids are asked until noon, Sept. 25, by the Board of Public Service, for placing granite blocks on Clifton Ave. Estimated cost, $9,987. Charles Danenhower is City Engr.; M. J. Keefe is Clk. Bd. Pub. Service.

XENIA, OHIO.—We are officially advised that the Board of Public Service has awarded to the BARBER ASPHALT PAVING CO., 114 Liberty St., New York, N. Y., contract for paving Sound St., at $31,377. J. E. Jones is Clk. Bd. Pub. Service.

PORTSMOUTH, OHIO.—Bids are asked until noon, Sept. 14, by the Board of Public Service, for improving Clay, Fifth and Market Sts. and Grand View Ave. Charles F. Schirrmann is Clk.; R. A. Bryan is Engr.-in-Charge.

FINDLAY, OHIO.—The Board of Public Service has let the contract for paving East Crawford St. to BALDWIN BROS. & GRAHAM, of Cleveland, for $1.71 a sq. yd., the total cost being over $9,000.

NEW BREMEN, OHIO.—The Village Council of New Bremen has awarded the contract for paving Monroe St. to G. H. HEFFNER & SON, of Celina, Ohio, at their bid of $7,519, and the Washington St. sewer to J. E. HENNESSY & BRO., of Napoleon, Ohio, at $5,428.

ZANESVILLE, OHIO.—Bids are asked until noon, Sept. 12, by the Board of Public Service, for paving and curbing Linden Ave. from Adair to Van Horn Aves., in Zanesville. P. J. Kerwin is Clk.

PIQUA, OHIO.—The Board of Public Service has awarded the contract for paving Chestnut St. to the BARBER ASPHALT PAVING CO., at $7,165.

DOWAGIAC, OHIO.—Bids are asked until 8 p. m., Sept. 17, by the City Council, for paving Beeson, Spaulding and Division Sts. and Park Pl. H. L. Rutter is City Clk.; John S. Haines is City Surv. (Advertised, Engineering News.)

WINCHESTER, IND.—Bids are asked by the Commissioners of Randolph County until 1 p. m., Sept. 11, for construction of 13,200 ft. of rock road in Washington and White River Townships.

TERRE HAUTE, IND.—Bids are asked by the Board of Commissioners of Vigo County until 11 a. m., Sept. 15, for improvement, by grading and graveling, of road No. 7, known as the Wood Road, in Fayette Township. Also for the construction of gravel road No. 8, known as the Paris and North Arm Stage Route Road, in Fayette and Sugar Creek Townships. Jerome W. Denehie is County Audr.

NEWPORT, IND.—Bids are asked by the Commissioners of Vermillion County until 10 a. m., Sept. 20, for construction of 15,300 ft. of gravel road in Vermillion Township.

FOND DU LAC, WIS.—Bids are asked until 2 p. m., Sept. 22, by the Board of Public Works, for improving Cherry St. in Fond du Lac. G. H. Stanchfield is City Engr.

ST. LOUIS, MO.—The HOOSIER CONSTRUCTION CO., Fitzgerald Bldg., Indianapolis, Ind., has secured contract to construct 90,000 sq. yds. of bitulithic pavement.

CHICKASHA, IND. T.—Bids are asked until 2.30 p. m., Sept. 13, by the Improvement Board, for paving six blocks of Chickasha Ave., about 18,803 ft. Estimated cost, $47,000. W. C. Burke, Oklahoma City, Okla., is Engr.

STEVENSON, WASH.—Bids are asked until 2 p. m., Sept. 18, by the County Commissioners, for constructing State Road No. 8. A. Fleischauer is County Audr.

TORONTO, ONT.—We are officially advised that an additional contract for 8,202 sq. yds. of bitulithic pavement has been awarded to the WARREN BITUMINOUS PAVING CO., of Toronto.

ST. CATHARINE, ONT.—We have been officially informed that the City has contracted with the WARREN BITUMINOUS PAVING CO., of Toronto, Ont., for 3,800 sq. yds. of bitulithic pavement.

REGINA, SASK.—We are officially informed that a contract for 8,815 sq. yds. of bitulithic pavement has been made with the WARREN BITUMINOUS PAVING CO., of Toronto, Ont.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

LANCASTER, MASS.—Francis Dane, of Hamilton, will erect a leatherboard mill here.

COHOES, N. Y.—It is reported that the Fuld & Hatch Knitting Co. will erect a knitting mill here. It is to be constructed of cement, and is to be located at Oneida and Van Rensselaer Sts.

CAMDEN, N. J.—The contract of the erection of the manufacturing plant for the Southwark Mfg. Co. has been awarded to the HALDEMAN CONSTRUCTION CO., 619 Arch St., Philadelphia. It is to be a 2-story brick building.

JERSEY CITY, N. J.—The Stayman Mfg. Co. has awarded the contract for the erection of its machine and forge shop to the UNDERWRITERS' ENGINEERING & CONSTRUCTION CO., 1170 Broadway, New York. It is to be constructed of reinforced concrete.

MANAYUNK (Philadelphia post-office), PA.—W. C. Hamilton & Sons, of William Penn, Pa., are having plans prepared for an addition to their paper mill here. It is to be a 3-story, reinforced concrete building. Power equipment and special machinery are to be installed.

PHILADELPHIA, PA.—Plans are being prepared for a factory building to be erected at 26th and Parrish Sts., by Finnessey & Kabler, 27th and Brown Sts. It is to be a 4-story brick and reinforced concrete building, 100 × 100 ft. Power equipment and special machinery are to be installed.

The contract for the erection of the factory for E. Hubschman, Front and Fairmont Sts., has been awarded to GEORGE A. GLENN & CO., 928 North Eighth St. It is to be a 5-story brick and concrete building, 60 x 100 ft., and is to have power and special machinery installed. Estimated cost, $50,000.

The Miller & Sons Co., operating the Irma Knitting Mill, 53d St. and Westminster Ave., has been incorporated under Pennsylvania laws with a capital of $75,000, and with the following named officers: Joseph Miller, Pres.; John G. Johnson, Jr., Secy., and Charles R. Miller, Treas., Buyer and Supt.

PITTSBURG, PA.—The United States Steel Corporation has appropriated $1,000,000 for an addition at the Donara works, formerly owned by the Union Steel Co. It is to be a billet plant, 280 ft. long. It will be electrically operated.

WILKES-BARRE, PA.—The contract for the erection of a factory building for the Dion Mfg. Co. has been awarded to the STANDARD CONSTRUCTION CO., Lanning Bldg. It is to be a 2-story, reinforced concrete building, 40 × 120 ft. and 40 × 100 ft. Power plant and special equipment are to be installed.

BALTIMORE, MD.—Plans have been prepared by the W. & J. Knox Net & Twine Co. for an additional factory building, 80 x 200 ft., to be equipped with modern apparatus.

The Western Maryland R. R. Co. contemplates the erection of a large machine shop here.

The Sumwalt Ice Co. contemplates the construction of an ice plant with a daily capacity of 400 tons. Estimated cost, $200,000. H. Hammond, 419 East Cross St., is at the head of the company.

WOODBURY, MD.—The contract for the erection of an addition to the mill of the Woodbury Cotton Duck Co. has been awarded to THOS. STANSFIELD & SON, 111 Clay St., Baltimore, Md. It is to be a 1-story building of brick, 75 × 100 ft. New equipment is to be installed.

McADENSVILLE, N. C.—McAden Mills will build another mill of 10,000 spindles at a cost of $200,000; will also replace 340 old looms now in position with same number of modern type; present equipment 15,000 spindles and 340 looms.

WASHINGTON, N. C.—Novelty White Brick Co. has been organized with a capital stock of $100,000, and will proceed to build its proposed plant. L. R. Mayo is Pres.; C. H. Wallace, Treas., and W. E. Jones, Gen. Mgr.

AUGUSTA, GA.—The building for the Mallison Braided Cord Co., of Athens, is to be a 2-story, 75 × 188 ft., to be equipped with 5,000 producing spindles and complementary apparatus, for the manufacture of 8s to 16s yarns, two to four-ply. The power is to be electricity, developed by a 600-HP. waterwheel.

GADSDEN, ALA.—It is reported that Alabama City, Gadsden & Attalla Ry. Co. will double the capacity of its 20-ton ice plant and add a cold storage department. John D. Gabouny is Mgr.

Same company has let contract to OTTO E. FISHER, of Birmingham, Ala., for erection of car barn of steel, entirely fireproof, 50 × 125 ft.; part of building to be used as a machine shop for repairing street railway cars.

MOBILE, ALA.—It is reported that the Stonewall Ice Co. has awarded the contracts for the erection of its proposed ice plant. The capacity will be between 50 and 100 tons daily. H. W. French is Pres.

It is reported that the American Lumber Co. has awarded the contracts to rebuild its lumber mill recently destroyed by fire. It is to be 40 × 250 ft. Estimated cost, $50,000.

JOHNSON CITY, TENN.—W. B. Johnson, proprietor of the Unaka Knitting Mills, has purchased the large brick building in the western part of the city. Fifty additional machines will be installed in the building.

INDIANAPOLIS, IND.—The Indianapolis Dash Co. has ordered plans for a new factory at 2116 South Meridian St. It is to be of brick and cement. Bids are being received.

MASON CITY, IOWA.—The Iowa Portland Cement Co. has been incorporated under the laws of West Virginia, and will erect a large cement plant here.

KANSAS CITY, MO.—The Hamilton-Brown Shoe Co. has awarded the contract for the erection of the $125,000 addition to its plant at Eighth and Carroll Sts. to the MURCH BROS. CONSTRUCTION CO., Odd Fellows Bldg. The machinery to be installed in the factory will cost $150,000.

CHEHALIS, WASH.—The Winlock Lumber Co. will rebuild its mill recently destroyed by fire at Capitola. New plant will cost $40,000.

The Star Brewing Co. is planning to build an ice plant and cold storage plant here. Estimated cost, $100,000. Gus Friewald is Pres.

TACOMA, WASH.—The Bay Island Producers' Union expects to build a fruit cannery here. Officers of the company are W. R. Lot, of Hales Passage, Pres.; A. M. White, Gig Harbor, Vice-Pres.; Hugh McGrath, Secy. and Treas.

ST. JOHNS, ORE.—The Swift Co. will erect a big plant here. Plans are now being prepared.

SALT LAKE CITY, UTAH.—The Sunnyside Co. is to erect a cyanide plant here. John Treweek is Mgr.

TORONTO, ONT.—Bids are asked by Emerson Coatsworth, Mayor, until Sept. 11 for the erection of a freight shed to be erected at Harbor Square. C. H. Rust is Des. Engr.

MONCTON, N. B.—The Intercolonial Ry. is to replace the buildings destroyed by fire with the following structures. Tool room, brass shop and bolt shop under one roof, 44 × 355 ft.; machine shop in two bays, 135 × 355 ft.; smith shop, 75 × 300 ft.; engine shop, 80 × 375 ft.; boiler erecting shop, 50 × 355 ft.; car repair shop, 100 × 300 ft.; passenger car paint shop, 100 × 300 ft.; freight car paint shop, 132 × 100 ft.; planing mill and carpenter shop, 88 × 300 ft.; storehouse and office building, 55 × 200 ft., and several accessory buildings.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

TUNNEL.—Providence, R. I.—See under Bridges.

LEVEE.—Sacramento, Cal.—F. LOWRY has secured the contract for reconstructing the river front levee from N to S Sts., for $19,600.

DITCH.—Center City, Minn.—We are advised that W. M. SHERWOOD, Alexandria, Minn., was awarded contract for Ditch No. 11, at $7,989. Bids were received on Aug. 24.

FIRE HOSE.—Winnipeg, Man.—Bids are asked until Sept. 24, by C. J. Brown, City Clk., for 7,500 ft. of 3½-in. cotton hose, rubber lined, for new high-pressure fire service system.

DAM.—Standish, Mich.—The Rifle River Improvement Co. here has secured permission from the board of supervisors to build a dam along the Rifle River to Bay City, Saginaw and other points.

STEAMER.—Seattle, Wash.—Contract has been awarded to the MORAN BROS. CO., of Seattle, for construction of a steel freight steamer for the Northwestern Steamship Co. Cost, $250,000.

TILE DRAINAGE.—Pontiac, Ill.—Bids are asked by Drainage Commissioners of Union District No. 2, until noon, Sept. 20, for construction of a tile drain containing 18,960 ft. of 20 to 8-in. tile.

DITCH.—Moorehead, Minn.—Bids were received on Aug. 28, and contract awarded to PHELAN & SHIRLEY, Omaha, Neb., for building a ditch in Clay County, at $85,773. John Eid, County Audr.

LEVEE.—Red Fork, Ark.—Bids are asked until Sept. 25 by the Levee Board, G. T. Blackwood, Pres., for about 14,000 cu. yds. levee work. For further information address J. E. Peoples, Red Fork.

ROCK.—Vicksburg, Miss.—Bids will be received until Sept. 21 by Capt. J. F. McIndoe, Engrs., New Orleans, La., for furnishing about 7,000 tons of rock at points on the Mississippi River below Vicksburg.

FIRE ALARM SYSTEM.—Fort Leavenworth, Kan.—Bids are asked until Sept. 19, by Capt. J. E. Normoyle, Q. M., for furnishing and installing a complete electric fire alarm system at Fort Leavenworth.

CANAL.—Port Huron, Mich.—GARLAND & CO. are reported to have secured the contract for furnishing material and constructing the uncompleted portion of the canal from Lake Huron to Black River, for $84,500.

DREDGING.—Santa Ana, Cal.—The Townsend-Dayman Investment Co. has awarded contract for dredging and reclaiming a tract of about 50 acres of marsh land at Newport Beach to the NORTH AMERICAN DREDGING CO. Cost about $30,000.

TUNNEL.—Detroit, Mich.—BUTLER BROS. CONSTRUCTION CO., 1170 Broadway, New York, has been awarded contract for building the tunnel for the Mivchigan Central Ry. under the Detroit River, between Detroit, Mich., and Windsor, Ont. Details will be given next week.

DAM, CANAL, EXCAVATION, ETC.—Lascruces, N. Mex.—Bids are asked by the U. S. Reclamation Service until 2 p. m., Oct. 16, for construction of a diversion dam, and other structures, and about six miles of canal, on the Rio Grande project, near Lascruces, N. Mex. (Advertised, Engineering News.)

DREDGING.—Wilmington, Del.—Bids were received by Maj. C. A. F. Flagler, Engrs., on Aug. 25, for dredging Cooper Creek, N. J., as follows: River and Harbor Improvement Co., of Philadelphia, 24 cts. per cu. yd.; American Dredging Co., of Philadelphia, 25 cts.; J. L. Mills Co., of Camden, N. J., 30 cts.

PIER.—San Bruno, Cal.—A contract has just been awarded to HEALY, TIBBITTS & CO., of San Francisco, for the construction of a pier and ferry slip at San Bruno Point, eight miles south of the city, where the Selby Smelting & Lead Works are to establish a new and extensive plant. Total cost, about $150,000.

PIER.—Gulfport, Miss.—Capt. J. T. Jones, Pres. of the Gulf & Ship Island R. R., and the builder of the deep-water harbor at Gulfport, Miss., announces that the capacity of the harbor and anchorage basin at that point is to be doubled, and that work is to be begun at once. A new pier will be built, duplicating exactly the one now in use.

SUBWAY AND TUNNEL.—Minneapolis, Minn.—Bids are asked by the Twin City Rapid Transit Co., Minneapolis, Minn., until Sept. 7, for constructing subway and tunnel for double track. Plans and specifications can be seen at the offices of the company or at office of Engineering News, New York. G. L. Wilson, Engr. (Advertised, Engineering News.)

SUBWAY.—Reading, Pa.—The Hawman Construction Co., which was awarded contract for Spring St. subway under the Philadelphia & Reading Ry. tracks at $157,000, has notified the Council that the present high price of material made it impossible for the company to do the work at that price, and asking that the plans be modified. New bids will be advertised.

WIRELESS TELEGRAPH.—Ottawa, Ont.—Offers have been received by the Government Department of Public Works from the Marconi and De Forest companies to install wireless telegraph communication between Quesnel, B. C., and White Horse, Yukon District, a distance of 1,200 miles. This mountainous stretch of country, through which the Government line runs, is subjected to serious interruption every winter.

CANAL.—Mitchell, Neb.—The Secretary of the Interior has executed a contract with JAMES O'CONNOR, of Mitchell, Neb., for the construction and completion of Schedules 7 and 8, of earthwork of distributing system, Interstate Canal, North Platte irrigation project, Nebraska and Wyoming. Schedules 7 and 8 consist of about 17 miles of laterals. The amount of Mr. O'Connor's bid was The amount of Mr. O'Connor's bids was $20,2 $20,237.

DITCH.—Douglas, Wyo.—The LaPrele Ditch & Reservoir Co., of Douglas, has awarded the contract for the construction of the LaPrele Ditch, aggregating 200,000 cu. yds. of dirt and rock work to P. J. O'CONNOR, of Cheyenne, Wyo., at the following prices: 14 cts. per cu. yd. for dirt work, 40 cts. for loose stone, and 90 cts. for rock work. There being no bids for the construction of the LaPrele reservoir, bids will be advertised for again the coming winter. J. B. Wilson, Secy.

DAM WORK.—Jackson Lake, Wyo.—The Secretary of the Interior has granted authority to the Reclamation Service to construct a temporary dam at the outlet of Jackson Lake, Wyo., by force account. The reservoir thus created will be used in connection with the Minidoka irrigation project, Idaho. It is probable that in 1907 from 8,000 to 10,000 acres of land under this project will be ready for irrigation and the plans of the project contemplate that the normal flow of Snake River shall be augmented by the water stored on the headwaters in Jackson Lake. It is proposed to erect a temporary dam from 10 to 15 ft. high by which sufficient water can be impounded to irrigate practically all the land that can

arrange to receive it during the next six to eight years, and this structure will serve as a coffer dam when permanent works are built. The estimated cost of the works is $30,000.

CANAL WORK.—Glendive, Mont.—The Secretary of the Interior has awarded contract to JAMES MUNN, of Deadwood, S. Dak., for the construction and completion of structures on the main canal, Divisions 5 to 9 inclusive, and laterals A to P inclusive, Lower Yellowstone Project, Mont.-N. Dak. The work involves approximately 150,000 cu. yds. of excavation, 7,000 cu. yds. of concrete, 7,000 cu. yds. of riprap, 550,000 lbs. of steel bars, 80,000 ft. B. M. of sheet piles, 450,000 ft. B. M. of lumber, and 8,000 lin. ft. of 8-in. to 24-in. terra cotta pipe. The cost of the work will be $205,814.

SMELTER.—Orilia, Ont.—The proposed $450,000 German-Canadian cobalt smelter is to be established on the Temiskaning & Northern Railway, advises E. A. Wakefield, American Consul, Orilia. It is stipulated that the German process to be used must be kept secret, and the experts to be Germans. The works will be started with the wet and dry process, first a concentrating plant to treat low-grade ores, then a cobalt oxide works and lastly a roasting plant. In Germany 52% of the world's production of cobalt oxide is used, and the German superintendent guarantees a market for 100,000 lbs. annually.

CANAL.—Glendive, Mont.—The Secretary of the Interior has awarded contract for the construction of the Lower Yellowstone Dam, Lower Yellowstone Project, N. Dak.-Mont., to the PACIFIC COAST CONSTRUCTION CO., of Portland, Ore., for the sum of $142,825. This dam is to be a rock-filled, timber-cribbed structure across the Yellowstone River at the headworks of the canal, about 18 miles northeast of Glendive, Mont., and according to the terms of the contract will be completed Feb. 1, 1909. The river at this point has been considered navigable, although boats have not been up the Yellowstone River since the time of the Custer massacre.

DRAINAGE AND TUNNEL. — Colorado Springs, Colo.—The Cripple Creek Drainage & Tunnel Co. has been incorporated, this being the first official move in the long-projected drainage of the district. The company will be capitalized for $1,000,000. The main offices will be in Colorado Springs, with the field of operations in the Cripple Creek district, as well as in this city. The initial board of directors will be F. F. Castello, of the Mary McKinney Mine; F. G. Peck, of the Portland Mine; Sherwood Aldrich, of the Elkton Mine; F. G. Campbell, of the Vindicator Mine; S. S. Bernard, of the El Paso Mine, and C. C. Hamlin, of Granite; A. E. Carlton, of Finley; W. J. Chinn and J. A. Ritter. The two latter will resign as soon as representatives from two other companies are named. Officers will be elected later and a decision reached regarding the advisability of constructing the Window Rock or the Gatch Park tunnel. Each of the companies interested will subscribe to stock in the tunnel company, no money being subscribed outright. No definite date is given as to the commencement of actual work on the tunnel.

PLANS AND SPECIFICATIONS.—A list of the plans and specifications which are on file at office of Engineering News, New York, for miscellaneous projects, for which bids are being asked, is given on first page of Construction News supplement.

MEXICO.

WATER-WORKS. — Monclova, Coahuila. — Citizens of Monclova are planning the construction of a water-works system for that city.

WATER METERS.—Chihuahua, Chih.—The City Council has passed an ordinance for the gradual introduction of water meters in the city.

STREET RAILWAYS.—Torreon, Coahuila.—Work is to commence soon improving and extending the street railway system of Torreon. The Torreon-Lerdo Co. will take over the property during the month of August, and will greatly improve the system.

AUTOMOBILE FACTORY.—Guadalajara.—Dr. Frank Lake has been granted a concession by the government of the State of Jalisco to establish an automobile factory at Guadalajara. The proposed factory is exempt from all state taxes for a period of ten years.

MINING MACHINERY.—Miñaca, Chihuahua.—Morris B. Parker, E. M. Parker and other capitalists of El Paso, Tex., have purchased the Republic mine, at Miñaca, Chih. A hoist is to be installed and a mill erected at once. James Murray, of Chihuahua, will be Supt.

CYANIDE PLANT.—Guanajuato, Gto.—The Guanajuato Reduction & Mines Co. is considering the advisability of doubling or tripling the capacity of its cyanide plant, which now has a capacity of 250 tons daily. C. L. Kurtz, of New York, is Pres. of the company, and C. W. Van Law, Gen. Mgr.

MINING MACHINERY.—Prietas, District, Sonora.—The Redman Mining Co., owners of placers and the Redman mine, in the Prietas mining district, Sonora, plan to equip the placer property with a steam shovel, pumping plant and sluice boxes. An 80-stamp mill will be erected at the mine.

SLAUGHTER HOUSE.—Chihuahua, Chih.—Gov. Enrique C. Creel, of Chihuahua, has approved the project of the City Council for the erection of a modern slaughter house to replace the old one. A commission of the council will carry out the plan, as soon as possible, as a sanitary measure.

STREET RAILWAY.—Parral, Chihuahua.—Gen. Jose de la Vega and Col. Antonio Ramos Cadena, who have a concession for a street railway system in Parral, Chih., have made the stipulated deposit in the state treasury guaranteeing the construction of the lines. It is reported that Ramon Fabela has been appointed Engineer to prepare plans.

RAILWAY.—Oaxaca. — Newspaper reports state that it is planned by the owners of the Oaxaca & Orient Ry. to extend the line to Tlacolula and the ruins of Mitla. It is also stated that the road will be ultimately extended to the Isthmus of Tehuantepec to connect with the Tehuantepec National.

MILITARY BARRACKS.—Tialpam, Federal Dist.—Capt. Pedro Esperon has been appointed to take charge of the construction of the new cavalry barracks at Tialpam. The plans for the barracks have been approved and construction will commence at once. The estimated cost is about $500,000.

MINING MACHINERY AND TRAMWAY.—Guanajuato, Gto.—The Penguico Mining Co., of Guanajuato, plans to erect a very large stamp mill, and to construct a tramway from the mine to the mill, a distance of about two miles.

The El Cubo Mining Co. contemplates erecting a new mill in the near future.

ELECTRICAL PUMPING PLANT.—City of Mexico.—The Mexican Light and Power Co. has contracted with the WESTINGHOUSE ELECTRIC & MANUFACTURING CO., of Pittsburg, Pa., for the entire electrical equipment for the pumps which will be installed for the water supply of the City of Mexico. The motors will aggregate nearly 5,000 HP.

RAILWAY.—Colima.—W. T. CARLEY, the engineer who built the Lookout Mountain Railroad in Tennessee, has contracted to construct the proposed timber railroad for the Colima Lumber Co., the New York concern which recently purchased the Cerro Grande timber tract in the States of Colima and Jalisco. Work is expected to commence within one month.

RAILWAY.—Sonora.—The concession for a railway from Torres to Minas Prietas, in the state of Sonora, which was granted in 1897, has been modified so that the company shall be obliged to construct, within two years from June 4 last, at least ten kilometers, in addition to the ten already built, and ten kilometers each succeeding year. The road must be completed by June 28, 1914.

HYDRO-ELECTRIC PLANT.—Jalisco.—W. W. Wheatley and W. J. Sherwood, respectively Pres. and Secy. of the Perico Exploration Co., have applied to the Federal Government for a concession to divert 1,000 liters of water, per second, from the San Geronimo de Coblanes River, in the ninth canton of the state of Jalisco. The power will be used in the reduction of metals and other mining and industrial purposes, and for electric power.

IRRIGATION.—Oaxaca.—The state government of Oaxaca has decided to build five dams, to form storage reservoirs for water to be used for irrigation. The dams will be established at the following points, and will be important structures: Near Teotitlan del Valle, near Oaxaca City, to the east of the ruined city of Mitla, near the town of San Juan Guelavia, and to the south of Uapalutla. Emilio Pimental, City of Oaxaca, is governor of the state.

HYDRO-ELECTRIC PLANT. — Mascota, State of Jalisco.—A large hydro-electric plant is to be installed at the Chorro del Embocadero waterfall, situated twelve kilometers from Mascota. Carlos Izquierdo and Miguel Izquierdo have applied to the state government for the necessary concession for the enterprise. The proposed plant will be used to supply Mascota with light and power. Transmission lines will also be built to other towns adjacent to the plant.

ELECTRIC TRAMWAY EQUIPMENT.—Guadalajara, Jalisco.—C. A. Maisu, Ch. Engr. of construction of the Electra Tramway lines, within a short time will place orders in the United States for the equipment and supplies required. The cars will be of the convertible type, to be operated closed or open, as desired. The majority of the cars will be equipped with motors, as trailers will be used only on the suburban lines. First and second class cars will be operated.

DAM AND PENITENTIARY.—Chihuahua, Chih.—Gov. Enrique C. Creel, of Chihuahua, states that the two contracts, one for the construction of the large dam on the Chuviscar River, which is to supply the City of Chihuahua with water, and the other for the interior of the new state penitentiary in the City of Chihuahua, will be let within the next 60 days. Three hundred thousand dollars will be expended on the dam and extensions and improvements of the water system, and $500,000 on the penitentiary, but only a portion of the latter will be let at the present time. The state will advertise for bids in each case.

HYDRO-ELECTRIC PLANT.—Santa Rosalia.—Paul Ginther, of Santa Rosalia, and Joaquin Cortazar, of Chihuahua, who recently obtained a concession from the state of Chihuahua to install a large hydro-electric plant on the Conchos River, are preparing to erect a dam about 18 miles from Santa Rosalia. This dam will form an enormous reservoir which will hold 1,800,000,000 cubic meters of water. Engineers who have made a survey for the project report that with a fall varying from 42 to 61 meters maximum, nearly 35,000 HP can be generated. Transmission lines will be built to Santa Rosalia, Chihuahua, Parral, Torreon and other towns and industrial centers. American and French capitalists are said to be interested with Messrs. Ginther and Cortazar in the project.

RESERVOIR AND CANALS.—Nuevo Leon.—The National Ry. Co. has secured a concession to divert 2,100 liters of water, per second, from the Soledad River, in the State of Nuevo Leon, for the purpose of furnishing water to its locomotives on its northern divisions. The concession also gives the company the right to construct canals and roads and telephone and telegraph lines along the canals. The intention is to construct a large reservoir along its right of way. Surveys will soon be commenced for the location of the necessary dam in the river, reservoirs and canals, and it is expected construction will commence within eight months.

RAILWAYS. — Zacatecas.—The concession recently granted Walter C. Palmer, of the City of Zacatecas, for the construction of railway lines into the Sombrerete, Nieves and Chalchihuites mining camps of the State of Zacatecas provides for four distinct lines, as follows: One from Gutierrez, a station on the main line of the Mexican Central, to Sombrerete; one from Sombrerete, or a convenient point on the first line, to Chalchihuites; one from a point on the Mexican Central line, north of Gutierrez, or a convenient point on the first line, to Nieves; one from a convenient point on the first line to Ciudad de Jerez. The concession provides that all the lines must be completed within seven years.

HYDRO-ELECTRIC PLANT. — Orizaba, Vera Cruz.—Messrs. Norcross & Taylor have secured a concession to utilize 3,500 liters of water, per second, from the Salado River or from the Nogales lagoon, in the canton of Orizaba, Vera Cruz, near the Mirafuentes factory, for generating motive power. The concession allows the transmission of electric energy either by overhead or underground cables, and to construct such canals and hydraulic works required. Surveys must commence within six months from July 4, the date of the concession, and plans and profiles of the proposed location of the works submitted within 12 months, construction commenced within 24 months, and the works completed within seven years.

LUMBER RAILWAY & SAW MILLS.—Colima.—The Colima Lumber Co., of New York, has lately purchased the Cerro Grande timber tract, containing 55,000 acres, located in the states of Colima and Jalisco. The company intends to at once install sawmills and provide transportation facilities so that the lumber can be marketed. A railroad from the City of Colima to the mountains, and up the mountains to the timber, is contemplated, and the length, if built, will be about 16 miles. As the Mexican Central Ry. Co. plans to build a branch from Colima to Autlan, passing the Cerro Grande, it is possible the New York company may arrange for the Central management for the construction of the line immediately, as far as the mountain. Capt. William E. Dame, of Albuquerque, N. Mex., is interested.

FOREIGN CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

HARBOR, IRRIGATION AND DRAINAGE WORKS.—Japan.—The Governor of Hokkaido and the leading residents have formed a plan for the independent development of the region. They propose to borrow a sum of 18,000,000 yen (about $9,000,000), which is to be applied to the improvement of the harbors at Kushiro, Abashiri, Nemuro, Rumoye and Otaru, and to works of irrigation and drainage.

TELEPHONE SYSTEM.—Japan.—The Japanese Department of Communications intends to establish telephone exchange offices at 130 more cities and towns, the work to cover seven years. The cost is estimated at over $10,000,000. During the present fiscal year telephone exchange offices may be established at 12 or 13 places out of 80 from which applications have been received. Some 2,000 subscribers will be enrolled at these places.

RAILWAY EXTENSIONS.—Lagos, West Africa.—It is proposed to make arrangements for the extension of the British 3-ft. 6-in. gage railway running from Lagos Island, for a distance of 124 miles, to Ibadan, a further section of which is now under construction from Ibadan to Oshogbo, 67 miles. The proposed further extension will go from Oshogbo via Ilorin to the Niger River, at Jebba, another stretch of 120 miles, or a total length of 307 miles from the sea to the Niger. If begun at once this extension would probably not be completed in less than three years. Another line is proposed on the other bank of the Niger River. As the roads would be built purely to advance cotton growing, the determination to expend British money in that way may not be realized. F. Bedford Glasier is Gen. Mgr. and Ch. Engr., at Ebute Metta, Lagos, West Africa.

RAILWAYS.—Italy.—It is announced that the Italian Government is sending a commission of engineers to visit Germany, France, the United Kingdom, the United States and Canada, for the purpose of investigating and reporting upon the working of the railways in these several countries. Since the Italian Government acquired the whole of the railways on July 1, 1905, there have been great increases in both passengers and goods traffic, but a complaint is heard that efficiency has been sacrificed to economy. This may be due to the age and inadequacy of the rolling stock, and apparently the commission will report upon the latest developments in this regard made by the railway authorities in the various countries to be visited. At all events it has already been resolved to apportion a sum amounting to over $10,000,000 for the provision of new locomotives, rolling stock, and the like.

ELECTRIC RAILWAYS.—Switzerland.—Concessions have been granted recently, as follows: To Othmar Kluser, of Brigue, the right to construct and work a narrow gage railway (partly funicular) between Stalden and Saas Fée. The estimated cost of the installation is 2,900,000 frs. (about $580,000), of which 225,000 frs. (about $45,000) is to be spent on rolling stock.

To C. Niess and L. Flesch, both of Lausanne, and M. F. Buchs, of Ormont-dessus, the right to construct and work a narrow gage electric railway between Ormont-dessus and Gstaad. The estimated cost of the installation is 2,000,000 frs. (about $400,000), of which 148,220 frs. (about $28,600) is to be spent on rolling stock.

To Messrs. Haag and Grenlich, of Bienne, the right to construct and work a narrow gage electric railway from Grindelwald to the Mer-de-Glace. The estimated cost of the installation is 2,300,000 frs. (about $460,000), of which 478,600 frs. (about $95,500) is apportioned for the purchase of rolling stock and hydro-electric plant for the construction of a generating station.

WATER-POWER CONCESSIONS.—Italy.—The Prefecture of Como has granted to Louis della Beffa, Milan, a concession for developing power from the River ... district of Sampeyre and F... varaita in the in electric lighting, tram... to be used mineralogical works. The ... traction and cost of the works is ab... all estimated ... "Societe des Forces Hydr... ques du haut Po" have also obtained ri... on the river for electric lighting and ... industrial purposes in the neighborhood ... Saluzzo and Pinerolo. Estimated cost, ... including machinery, about $100,000.

Leonard Albonico has ob... permission from the Prefecture of S... to obtain water power from the torrent ... district of Chiese, for the ... electric power for lighting ...

Ange Pepron has obtained ... from the Prefecture of Florence permis... to tap the Bisenzio, near Mercatale, d... of Vernio, for use at his factory "Molin... nuovo," situated at that place.

The firm of Jean Grossan... of Tolmezzo, have obtained from the Pref... of Udine rights of a similar nature in ... district of Arta, and Joseph Peghini ha... been granted by the Prefecture of Massa ... rrara a 30 years' concession for water-p... from the Carrione.

HARBOR CONSTRUCTION.—Japan.—The Tokyo Harbor Construction Investigation Committee has decided to carry out the reclamation of the foreshore, covering at least 1,200,000 tsubo, for the purpose of appropriating the proceeds to the cost of the construction of the harbor.

The Yokohama Chamber of Commerce announces that the Department of Finance has framed a plan for dredging the harbor of Yokohama inside the breakwater. The work was first undertaken by the local government, but was subsequently transferred to the management of the Extraordinary Works Office of the Finance Department. The officials have drawn up a plan to divide the harbor into four separate sections, having 20, 24, 28 and 32 ft. of water, to facilitate the anchorage of vessels; but in view of the advent of large vessels the authorities found it necessary to provide berths drawing at least 35 ft. of water. The plan has accordingly been modified, and the dredging work is to be completed in nine years' time. A thorough repair of the breakwater is also to be carried out, beginning during the current fiscal year, the work spreading over four years.

According to the British Acting Consul in North Formosa, E. F. Crowe, certain improvements will be carried out in the near future at Kelung Harbor. The idea of the breakwater seems to have been abandoned, but a sum of about $3,000,000, spread over the next seven years, is to be devoted to dredging, to removing some rocky islands within the inner anchorage, to making quays and wharves, and to erecting godowns, cranes, etc., so that proper facilities for the increasing trade of the harbor will be afforded, and accommodation found within the inner anchorage for at least 13 vessels of about 6,000 tons each—five vessels to be moored alongside the wharves and eight vessels to buoys.

TUNNEL, RAILROAD.—Switzerland.—Edward Higgins, American Consul at Berne, reports that the legislature of the Canton Berne has accepted the project for a trunk line called the "Lötschberg," with electricity as motor power, to pass through the Bernese Alps and connect at Brig with the Simplon. This new railroad will require 5½ years to build, and will necessitate a tunnel 13½ kilometers (kilometer = 0.62137 mile) long, of an entire length of 56 kilometers. The cost will be about $17,100,000. The steepest gradient will be twenty-seven one-thousandths. It will serve as the most direct means of communication between northern Italy (Milan and Genoa) and the vast district lying to the north and northwest of Switzerland. It will shorten the approach to the Simplon, that now must be reached via Lausanne, and will compete with the Gotthard tunnel railroad. In addition to its value as an international trunk line, it will prove of vast commercial importance to central Switzerland, and particularly to the Canton and city of Berne, by affording a direct line with the south that now has to be reached by means of the Gotthard on the east or through the Simplon, which requires a roundabout deviation via Lausanne on the west. The proposed line will commence at Frutigen, a town near Spiez, a few miles from the lake of Thun, which is in direct communication with the towns of Thun and Pontarlier and with the cities of Berne and Basel. It will merge into the Simplon at Brig and virtually form the completion of that great project. The distance from Frutigen to Brig will be 56 kilometers, from Spiez to Brig 71 kilometers, and from Berne to Brig 113 kilometers. From an international standpoint Paris will be 15 miles nearer the cities of Italy than via the new Lausanne-Simplon tunnel route and about 100 miles nearer than via Gotthard. From Calais northern Italy can be reached with 52 miles less travel than by Lausanne, through the Simplon. A Federal concession was granted covering the Lötschberg in 1901 and amended in 1897. The Canton has turned over its concession to a syndicate, and the cost will be borne by issuing subvention shares, $4,000,000; preferred shares, $4,000,000; 4% first mortgage bonds, $5,000,000; and 4½% second mortgage bonds, $2,900,000, or a total of $17,100,000. The subvention shares will receive no interest until the road is in working order, but the preferred shares will be paid 4% interest during the period of construction. The Canton Berne participates by the purchase of $3,300,000 subvention shares. The syndicate is composed of Swiss and French banks. It is expected that ultimately the Swiss Federal railways will buy the Lötschberg. The work will commence at once.

U. S. RECLAMATION SERVICE PROJECTS.

A list is here given of the principal contractors for work being carried on or completed under the supervision of the U. S. Reclamation Service. A number of inquiries have been made to this office for information along this line, and it is believed that the list will be of interest to our readers. The list gives the name of contractor, location of work and estimated amount of contract for the principal work being carried on by the Reclamation Service. In addition there are several hundreds of smaller contracts for detailed work, or for furnishing supplies, transportation, etc. Practically all of the work is done by contract, although in a number of instances, through the failure of the principal contractors, it has been necessary to take over the contract and execute it by so-called force account, which, in effect, is often the subdivision of the work into a great number of small contracts. (1) Contractor's number; (2) specification number; (3) projects, divided as follows: (A) Minidoka project, Idaho; (B) Truckee-Carson project, Nevada; (C) Salt River project, Arizona; (D) Uncompahgre Valley project, Colorado; (E) Hondo project, New Mexico; (F) North Platte project, Wyoming; (G) Belle-Fourche project, South Dakota; (H) Lower Yellowstone project, Montana; (I) Huntley project, Montana; (J) Yuma project, California; (K) Shoshone project, Wyoming; (L) Klamath project, Oregon; (M) Payette-Boise project, Idaho; (N) Strawberry Valley project, Utah; (O) Garden City project, Kansas; (4) division; (5) contractor; (6) amount of contract:

(1)	(2)	(3)	(4)	(5)	(6)
1	1	(B)	Main Canal Div. 3	E. B. & A. L. Stone Co	$339,119
2	1	"	Main Canal Div. 1	C. A. Warren & Co	476,002
3	1	"	Main Canal Div. 2	C. A. Warren & Co	484,941
4	1	"	Cement	J. D. Spreckles & Bros. Co	89,819
5	2	(C)	Cement Mill	Wilcox & Rose	12,505
6	3	"	Cement Machinery	Allis-Chalmers Co	38,880
7	4	"	Telephone	Jas. R. Thorpe	22,348
8	5	"	Cement Mill Motors	Hendrie & Bolthoff Mfg. Co	10,642
9	5	"	Generators Temp. P. Rt	Bullock Elec. Mfg. Co	11,375
10	10	"	Water Wheels	Stilwell-Bierce, etc	8,445
11	9	"	Power Canal, Sch. 1	Robert Sherer & Co	317,681
12	9	"	Power Canal, Sch. 2	John Tuttle	166,624
13	7	"	Sluicing Tunnel	John Tuttle	11,178
14	13	(B)	Distributing Can. Bridg	Clarence W. Swain	2,040
15	13	"	Distributing Canal, Exc'v	Pacific Coast Cons. Co	254,777
16	13	"	Sch. C. Canals & Hd. Gates	San Francisco Cons. Co	60,997
17	12	(A)	Dam, Spillway, Can., etc	Bates & Rogers, etc	425,923
18	14	"	Cement	Portland Cement Co., Utah	41,300
19	13	(B)	Dist. Canal, Hdworks	R. C. Mattingly	60,773
20	17	(D)	Telephone	Ed. A. Hess	5,642
21	16	"	S. Canal 1, 2, 7-9	Knowlton & Bollen, etc	41,010
22	16	"	S. Canal 3, 4, 5	Orman & Crook	33,510
23	16	"	S. Canal 6	Kellogg & Worley	9,973
24	18	(C)	Sluicing Gates	Llewelln Iron Works	102,000
25	19	(D)	Gunnison Tunnel	Taylor-Moore Cons. Co	1,008,500
26	15	(E)	Dam & Canals 1, 3, 4, 5, 6	Taylor-Moore Cons. Co	118,403
27	15	"	Dam & Canals 2	Slinkard Cons. Co	26,087
28	23	(F)	Pathfinder Tunnel	Kilpatrick Bros., etc	34,292
29	20	(B)	Ditches Divs. 1, 2, 6	San Francisco Cons. Co	129,270
30	20	"	Ditches Div. 5	Pacific Coast Cons. Co	43,484
31	20	"	Ditches Divs. 3, 4	Utah Cons. Co	117,737
32	22	(C)	Hauling Mdse	Wolf Sachs	50,000
33	22	"	Fuel Oil	C. R. Eager & Co	174,000
34	26	"	Fire Wood	J. A. Sturgeon	5,073
35	25	"	Roosevelt Dam	J. M. O'Rourke & Co	1,147,600
36	28	(G)	Main Canal, Div. 1	S. R. H. Robinson	99,937
37	28	"	Main Canal, Div. 2	Widell-Finley Co	107,260
38	42	(B)	Cement	Pacific Portland Cement Co	15,041
39	29	(F)	Int. State Can. 1, 2, 7-10	Robinson & Maney	261,298
40	29	"	Int. State Can. 3	Griffith & McDermott	63,000
41	29	"	Int. State Can. 4	Deadwood Cons. Co	48,500
42	29	"	Int. State Can. 5	Orman & Crook	67,529
43	29	"	Int. State Can. 8	James O'Conner	50,603
44	21-30	(D)	Office Building	J. J. Kewin	4,168
45	21-30	"	Heating Plant, Of. Bldg	Montrose Hardware Co	800
46	31	(H)	Canal, Div. 1	Widell-Finley Co	163,388
47	31	"	Canal, Divs. 2, 3, 4	Callahan Bros., etc	356,758
48	31	"	Structures, Divs. 1, 2, 3	Charles Stbern	104,276
49	31	"	Structures, Div. 4	Deadwood Cons. Co	28,143
50	52	"	Telephone	E. A. Hess	15,557
51	33	(J)	Laguna Dam	J. G. White & Co	797,650
52	34	(A)	Telephone	W. H. Crumb	6,791
53	35	"	Dist. Canal 1, 5, 6, 7	Orman & Crook	324,000
54	35	"	Dist. Canal 2	Hubbard & Carlson	121,494
55	35	"	Dist. Canal 3, 4	Monarch & Porter	194,827
56	35	"	Dist. Canal 8	Vulcan Iron Works	9,471
57	37	(B)	Lake Tahoe	Edward Malley	32,200
58	38	(G)	Telephone	W. H. Crumb	4,152
59	40	(I)	Structures	W. D. Lovell	33,764
60	42	(B)	Cement (2500)	Pacific Portland Cement Co	2,750
61	43	(F)	Bridge	James F. Stanley	3,385
62	45	(H)	Cement	Illinois Steel Co	12,000
63	50	(F)	Pathfinder Dam	Geddes & Seerie Stone Co	482,000
64	41	(J)	Yuma Dike	Miller & Peasley	72,467
65	53	(I)	Cement	Illinois Steel Co	7,700
66	47	(D)	South Can. Div. 10-21	Orman & Crook	513,365
67	48	(K)	Shoshone Dam	Prendergast & Clarkson	515,730
68	49	"	Corbett Tunnel	Charles Spear	594,325
69	39	(I)	Main Canal, Div. 3	Callahan, Katz, etc	53,210
70	39	"	Main Canal, Div. 2	W. D. Lovell	43,245
71	52	(J)	Cement	Pac. Portland Cement Co	46,500
72	54	(E)	Embankments 3, 4	Wood, Bancroft & Doty	36,908
73	56	(G)	Dam & N. & S. Canals	Orman & Crook	1,003,299
74	63	(F)	Structures (1st Con.)	W. O. Morrison	130,877
75	62	"	Int. Stat (2) Div. 7	Burke Cons. Co	76,240
76	62	"	Int. Stat (2) Div. 6	James O'Connor	77,360
77	61	"	Cement	Portland Cement Co	15,900
78	60	(H)	Laterals	Widell-Finley Co	252,770
79	58	(C)	Electrical Apparatus	Gen. Elec. Co., N. Y	39,152
80	65	(I)	Telephone	Piper Bros. Co	8,527
81	64	"	Dest. System	N. J. Foundry & Mach. Co	10,538
82	60	(H)	Lateral N	Noble & Mann	5,727
83	62	(F)	Int. State. Divs. 1-5, 8	Deadwood Cons. Co	309,351
84	64	(I)	Dist. System Sch. 1-5	The Piper Bros. Co	116,600
85	59	(C)	Water Wheels	S. Morgan Smith Co	19,165
86	60	(H)	Div. 8 & Lat. F. O. P	Widell-Finley	29,983
87	66	(L)	Main Canal, 1, 2, 3	Mason, Davis & Co	377,330
88	67	(I)	Main Canal, 1	Hughes & Olsen	170,360
89	68	(M)	Dam, Canals, etc. Sch. 4	Page & Brinton	48,855
90	70	(G)	Cement	Western Portland Cement	70,000
91	66	(L)	6 Highway Bridges	International Contr. Co	6,828
92	71	(D)	Cement	McPhee, McGinnity Co	115,500
93	69	(E)	Canals & Laterals	T. F. Cazier	10,115
94	75	(L)	Cement	Pacific Portland Cement Co	15,500
95	68	(M)	Dam, Can. Emb., etc., Sch. 6	Hubbard & Carlson	256,550
96	77	(H)	Steel	John Blake Kendall	6,833
97	68	(M)	Dam, Can., etc., Sch. 3	Conway & Wilbite	95,400
98	72	(J)	Laguna Dam Gates	J. G. White & Co	65,900
99	81	(H)	Main Canal, Div. 4	Henry C. Delaney	68,091
100	68	(M)	Gates and Guides	United Iron Works	15,045
101	73	"	Cement	Illinois Steel Co	22,400
102	76	(H)	Cement	Illinois Steel Co	20,000
103	79	(M)	Main Canal, Sch. 2, 3	Page & Brinton	135,900
104	68	"	Boise Dam	Utah Fireproofing Co	158,950
105	79	"	Main Canal, Sch. 1	W. H. Thompson	93,325
106	81	(H)	Main Canal, Div. 2	D. H. Freeman Co	251,516
107	82	(N)	Telephone System	A. E. Hess	9,750
108	75	(L)	Cement	Pacific Portland Cement Co	15,500
109	69	(H)	Main Canal, Div. 8 Later F. O. P.	John A. Nelson	29,983 205,115
110	81	"	Main Division 1	D. H. Freeman & Co	46,300
111	85	(O)	Electric Power Plant	D'Ollier Mfg. Co	6,000
112	87	(G)	5 Highway Bridges	Canton Bridge Co	.....
113	(F) and (K)		Cement	Illinois Steel Co	56,000
114		(I)	Div. 5, Main Canal	Hughes and Olson	77,610
115		(H)	Div. 3, Main Canal	Newman and Hoy	245,033
116		(H)	Structures	James Munn	.....
117		(F)	Div. 7-8, Interstate Canal	James O'Connor	.....

ENGINEERING MATERIAL PRICES.

TRACK FASTENINGS—

Pittsburg f. o b cars—Angle bars, 1.50 to 1.75 cts.; spikes, 2.30 to 2.50 cts.; bolts, square nuts, 2.60 to 2.65 cts.; bolts, hexagonal nuts, 2.75 to 2.80 cts.

RAILS, STEEL—

New York—at mill—New standard sections, $28; standard, second quality, $27; light sections 12 to 25 lbs., $29 to $32; old iron f. o. b. New York, $19.50 to $20.50; old steel, long lengths, $16 to $16.50; old steel, short pieces, $14 to $14.50.

Pittsburg—Standard sections, at mill, $28. standard, second quality, $27; light rails, 12 to 25 lbs., $28 to $32.

STRUCTURAL MATERIALS—

New York—at tidewater—Beams and channels, up to 15-in., 1.84½ cts.; over 15-in., 1.84½ cts.; angles, 3 x 2 and up to 6 x 6, 1.84½ cts.; zees, 3-in. and larger, 1.89½ cts.; tees, 3-in. and larger, 1.89½ cts.; steel bars, half extras, 1.74½ cts.

PLATES AND SHEETS—

New York—at tidewater—Sheared plates, tank, 1.76½ to 1.86½ cts.; flange, 1.84½ cts.; marine, 2.04½ to 2.24½ cts.; still bottoms, 2.04½ cts.; fire-box, 2.24½ to 3.05 cts.

Pittsburg—Tank, ¼-in. thick and heavier, 1.60 cts.; black sheets, 27 gage, 2.40 to 2.45 cts.; black sheets, 28 gage, 2.50 to 2.55 cts.

IRON—

Pig Iron:

At New York—tidewater—	
Northern—	
No. 1 X Foundry	$18.50 to $19.00
No. 2 X Foundry	17.75 to 18.50
No. 2 plain	17.25 to 17.75
Gray forge	16.00 to 16.50
Basic	17.50
Virginia—	
No. 1 Foundry	18.10 to 18.60
No. 2 Foundry	17.90 to 18.10
Basic 0	19.10 to 19.60
Southern—	
No. 1 Foundry	18.00 to 18.50
No. 2 Foundry	17.50 to 18.00
No. 3 Foundry	17.00 to 17.50
No. 4 Foundry	16.50 to 17.00
No. 1 Soft	18.25 to 18.75
No. 2 Soft	17.50 to 18.00
Gray Forge	16.00 to 16.50
Mottled	15.50 to 16.00
Basic	18.25
At Chicago—	
Lake Superior Charcoal	$19.50 to $20.00
Northern Coke Foundry, No. 1	20.25 to 20.50
Northern Coke Foundry, No. 2	19.50 to 19.75
Northern Coke Foundry, No. 3	19.00 to 19.50
Northern Scotch, No. 1	20.00 to 20.50
Ohio Strong Softeners, No. 1	19.80 to 20.05
Ohio Strong Softeners, No. 2	19.30 to 19.55
Southern Coke, No. 1	19.40 to 19.90
Southern Coke, No. 2	18.90 to 19.40
Southern Coke, No. 3	18.40 to 18.90
Southern Coke, No. 4	17.90 to 18.40
Southern Coke, No. 1 Soft	19.40 to 19.90
Southern Coke, No. 2 Soft	18.90 to 19.40
Southern Gray Forge	16.40 to 16.90
Southern Mottled	16.40 to 16.90
Malleable Bessemer	19.50 to 20.00
Standard Bessemer	20.35 to 20.80
Jackson Co. and Kentucky Silvery, 6%	22.30 to 22.80
Jackson Co. and Kentucky Silvery, 8%	23.30 to 23.80
Jackson Co. and Kentucky Silvery, 10%	24.30 to 24.80
At Pittsburg, f. o. b. cars—	
No. 2 Foundry	$18.35 to $18.85
Gray Forge	16.35 to 16.50
Bessemer Iron	18.10 to 18.35
Ferro-Manganese	70.00 to 80.00
Muck Bars	28.00
Iron Bars	1.25 to 2.00

Cast-Iron Pipe.

New York—Carload lots, net tons, 6-in., at tidewater, $32.

Chicago—4-in. water pipe, $32.50; 6-in. and larger; $31.50; with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—

Asphaltum:

Ventura and other California asphalts, $19 to $21 per ton at New York: Trinidad refined, $20 to $25 per ton: Venezuela asphalt, $25 to $30 per ton; Bermuda asphalt, $25 to $30.

Cement:

Rosendale or Natural, in wood, 95 cts. per bbl.; Portland domestic, in sacks, $1.20 to $1.30; in wood, $1.50 to $1.60; German Portland, $1.90 to $2.10.

Copper:

Lake, 18.75 cts; electrolytic, 18.50 cts.; casting, 18.25 cts.

Lead:

New York, spot, 5.85 to 5.90 cts.

Spelter:

New York, spot, 6 to 6.10 cts.

Tin:

New York, spot, 40.15 to 40.50 cts.

Tar:

New York, $5 to $5.50 per bbl.

Pitch:

New York, $3 to $3.20 per bbl.

LUMBER—

New York, wholesale prices:

Piling—Spruce, ordinary cargoes, 6 to 7 cts.; oak, 14-in. butt, 40 to 50 ft., 19 cts.; 50 to 55 ft., 22 cts.; 55 to 60 ft., 23 cts.; 60 ft. and up, 25 cts.; pine, 60 to 65 ft., $8.50; 65 to 70 ft., $9.50; 70 to 75 ft., $10.50. 80 ft. and up, $16.

Railroad ties—Yellow pine, 6 x 9 ins. x 8 ft., 67 to 69 cts.; 6 x 8 ins. x 8 ft., 62 to 64 cts.; 7 x 9 ins. x 8 ft., 75 to 77 cts.; 7 x 8 ins. x 8½ ft., 74 to 75 cts.; 7 x 9 ins. x 8½ ft., 79 to 80 cts.

INDUSTRIAL NOTES.

THE KENTUCKY CONSTRUCTION CO. has established offices at 424 West Jefferson St., Louisville, Ky., where it will do a general contracting business.

J. H. WAGENHORST & CO. report the following as a partial list of recent sales: Eugene Dietzgen Co., New York; Carnegie Steel Co.; Swift & Co., Chicago, Ill.; the A. O. Smith Co., Milwaukee, Wis. The Wagenhorst Co. reports a very flourishing business.

THE GENERAL RAILWAY SIGNAL CO. has been awarded the contract for the complete automatic block signal equipment for the Philadelphia & Western Railway Co. This road runs from the terminus of the Philadelphia subway elevated structure, parallel to the main line of the Pennsylvania Railroad Co.'s line, west for twelve miles.

PAWLING & HARNISCHFEGER advise us that Mr. Arthur Appleton has been made resident manager of the New York office, at 45 Broadway, and will represent their interests in and about New York City, the New England States and Eastern Canada. Mr. Appleton was formerly associated with Wm. Sellers & Co., Philadelphia.

P. A. JERGUSON has purchased the plant, contracts, good will, etc., of the William T. Bonner Co., Boston, Mass., and will continue the business under the name of the Jerguson Manufacturing Co. Mr. Jerguson was originally superintendent of the William T. Bonner Co., and has had extended experience in practical marine, stationary and locomotive engineering, and particularly in connection with the mechanical appliances on warships.

THE DE LA VERGNE MACHINE CO., foot East 138th St., New York, reports the following among recent orders received for "Hornsby-Akroyd" oil engines: Central New England Ry. Co., Hartford, Conn., 7 HP. geared to pump; F. J. Stokes Machine Co., Philadelphia, Pa., 25 HP.; the Hastings Pavement Co., New York City, 16 HP.; the W. F. Norman Sheet Metal Mfg. Co., Nevada, Mo., 50 HP.; Union Ballast Co., New York City, one 20 HP. and one 32 HP.; D. P. Forst & Co., Trenton, N. J., 13 HP.; Webb Wire Works, New Brunswick, N. J., 32 HP.; Messrs. J. W. Lippincott, S. P. Scott & Max Meyer, Little Rock, Ark., 50 HP. engine to drive a De La Vergne ice machine.

THE ELECTRIC CABLE CO., of 17 Battery Place, New York, has just received further orders from the New York Central & Hudson River R. R. Co., and from the New York & Queens County R. R. Co., for Voltax, the high potential insulating compound with which these companies have been experimenting for several years. The New York Central Co. will use this material extensively in the electric work at High Bridge in the installation of the new electric railway work at this point. Among the other railway companies which are using this material are the Illinois Central and the Norfolk Lighting & Ry. Co., of Norfolk, Va. The latter company will use Voltax compound for underground insulation work.

THE STANDARD BITULITHIC CO., of New York, has been awarded a contract by the U. S. Quartermaster's Department for surfacing with bitulithic the present granite block pavement on roadways in the grounds of the Army Depot, at 26th St. and Gray's Ferry Road, Philadelphia, Pa. The award of this contract is significant from the fact that it is the first practical recognition of the bitulithic pavement by the U. S. Government, although since its introduction five years ago government experts have carefully studied its theory of construction and have watched its rapid development and increase in popularity with municipalities. The investigations of the experts have extended to observations of its wearing qualities under all classes of traffic conditions and the practical endorsement of Warren Bros. pavement by the government in awarding the Philadelphia contract is ample evidence that bitulithic meets all stringent requirements of the government.

THE STRAUSS BASCULE & CONCRETE BRIDGE CO. and the WALLACE-COATES ENGINEERING CO., both of Chicago, announce that they have entered into an agreement whereby the latter will act as general sales agents and contractors for the former, which will confine itself exclusively to the engineering work in connection with its special designs, and also will give its attention to general engineering. The Strauss company has its bascule bridges under construction at Rahway, N. J., for the New Jersey Short Line R. R.; at Camden, N. J., for the County of Camden; at Staten Island, N. Y., for the Staten Island Rapid Transit Co.; at Lockland, Ohio, for the County of Hamilton; over the Black River for the Missouri Pacific R. R., and at Copenhagen, Denmark, for the city of Copenhagen. The second largest single leaf bascule bridge in the world is said to be the Strauss bridge for the Wheeling & Lake Erie Ry. at Cleveland, Ohio, completed in October, 1905. The same company has also completed one of its ribbed concrete steel bridges (a four-span, single-track structure) at Belvidere, Ill., for the Elgin & Belvidere Electric Ry. The Wallace-Coates Engineering Co. was organized recently (with a capital of $500,000) by Mr. H. U. Wallace, formerly Chief Engineer of the Illinois Central R. R., and who during the past year has been Third Vice-President of J. G. White & Co., and Mr. F. R. Coates, who was formerly Chief Engineer of the Chicago Great Western R. R., and who for the past two years has been Vice-President of the Thos. Phee Co. It has been organized to do a general engineering and construction business, and under the arrangements with the Strauss Bascule Bridge Co. will give particular attention to the sale and construction of the Strauss bascule and reinforced concrete arch bridges; also to reinforced concrete steel building construction. This company will open an office in Portland, Ore., which will be in charge of Mr. O. O. Alexander, General Western Agent.

TRADE PUBLICATIONS.

CONDUITS.—H. W. Johns-Manville Co., 100 William St., New York City. Paper; 3½ × 6 ins.; pp. 12; illustrated.

Portland sectional conduits are intended to provide protection and insulation for pipes conveying steam, gas, water, etc. They are made in 3-ft. lengths, glazed inside and out; each length is divided longitudinally into two sections, forming the top and bottom halves of the conduit. In making the division of the lengths the knives are allowed to cut but half way through the shell; thus the remaining thickness is made to have a rough, unglazed edge, which, when cemented, will make a good joint.

CONTRACTORS' SKIPS.—George Perrine, 22 William St., New York City. Paper; 8½ × 11 ins.; pp. 2; illustrated.

This contractors' skip obviates all unnecessary handling of the load, and does not require a dumping platform. It may be handled by any convenient hoisting apparatus; the only extra attachments necessary are the spreader beams and chains and the tripping rope, which are permanently attached to the derrick or crane and operated by the hoister runner.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 88.

PAVING.

Portsmouth, Va.

Sealed proposals will be received at the office of the City Clerk, Portsmouth, Va., addressed to Street Committee, until 8 P. M., September 20, 1906, for furnishing and setting sixty-nine hundred (6,900) lineal feet, more or less, of five inch granite curbing; and furnishing materials and paving with Vitrified Brick fourteen thousand (14,000) square yards, more or less, on the following streets: Lincoln Street, between Fourth and Fifth Streets; on North Street, between Court and Crawford Streets, and on Middle Street.

Blank forms and instructions to bidders, together with specifications for the work, can be obtained upon application at the office of City Engineer.

The right is reserved to reject any and all bids.

E. B. HAWKS,
SAMUEL T. MONTAGUE,
Chairmen Street Committee.
BASCOM SYKES,
City Engineer. 10-2t

CONCRETE BRIDGE.

Denton, Md.

Sealed proposals will be received by the County Commissioners of Caroline County, at their office until 12 o'clock noon, Tuesday, Sept. 25, 1906, for the erection of a Reinforced Concrete Bridge over the Choptank River at Greensboro, Maryland. Bidders will submit plans and specifications. Each bid must be accompanied by certified check to the amount of $500 as a guarantee of good faith to execute a contract within 10 days from date of award. The County Commissioners reserve the right to reject any and all bids.

WILLIAM D. UHLER,
10-2t Road Engineer.

MADISON BARRACKS, N. Y., Sept. 3d, 1906.—Sealed proposals, in triplicate, will be received until 11 A. M., Sept. 24th, 1906, and then publicly opened, for constructing Electric Lighting System here, comprising following work: Wiring buildings for approximately 2,000 lights, furnishing fixtures, constructing all transmission lines, furnishing and installing all arc lamps, transformers and sub-station apparatus, and constructing brick fireproof sub-station. Also proposals for furnishing electric current for exterior and interior lighting here. U. S. reserves right to reject any or all bids. Specifications may be seen here. Envelopes containing sealed proposals should be marked "Proposals for Electric System," and addressed to Constructing Quartermaster. 10-2t

DEPARTMENT OF THE INTERIOR, Washington, D. C., August 31, 1906.—Sealed proposals will be received at the office of the United States Reclamation Service, Las Cruces, New Mexico, until 2 o'clock, P. M., October 16, 1906, for the construction of a diversion dam and other structures, and about six miles of canal on the Rio Grande Project, near Las Cruces, New Mexico involving the furnishing and driving of about 50,000 lineal feet of round piles and 170,000 feet board measure of sheet piles, constructing about 2,600 cubic yards of concrete, excavating about 321,000 cubic yards of earth, and other related work. The work is subdivided, and proposals for separate divisions thereof may be submitted. For specifications, forms of proposal and plans, address the U. S. Reclamation Service at Washington, D. C., or at Carlsbad, New Mexico. THOS. RYAN, Acting Secretary. 10-6t

PAVING.

Atlantic City, N. J.

Sealed bids or proposals endorsed "Proposal for Paving Tennessee and Mansion Avenues," with the name of the person or corporation making the bid, will be received by the City Council, at Council Chambers, in the City Hall, at 8.30 o'clock, P. M., Monday, September 10, 1906, during a session of City Council.

The City Engineer's estimate of the work to be done under the above title, by which the bids will be tested, is the furnishing and laying of:

3,780 sq. yds. Wood Block Pavement complete, including preparation of subfoundation and laying concrete foundation.
30 lin. ft. of 4" × 12" Blue Stone Heading Stones, including concrete foundation.
2,740 lin. ft. of 4" × 16" Blue Stone straight curbing.
94 lin. ft. of 4" × 16" Blue Stone curved curbing, 2 ft. radius.

Two sample paving blocks must be deposited with the bid in conformity with the provisions stated in the Notice to Contractors accompanying the contract and specifications.

No proposal will be received or considered unless accompanied by a certified check upon a National or State Bank or Trust Company, drawn to the order of Albert Beyer, City Treasurer, for the sum of Two thousand five hundred dollars ($2,500).

Surety Company Bond will be required in the sum of one-half of the contract price for the entire work, based upon the estimated quantities herein given.

The City Council reserves the right to reject any or all bids if it shall deem it for the public interest so to do.

Blank forms of Proposal, Notice to Contractors, Contract and Specifications, and further information, if required, can be obtained upon application at the office of the City Engineer, Room 622, Bartlett Building.

WALTER J. BUZBY,
JAMES B. REILLY,
JOHN S. WESTCOTT,
SAMUEL S. PHOEBUS,
THOMAS H. THOMPSON,
Street Committee of City Council.
J. W. HACKNEY,
City Engineer. 10-1t

SEWERAGE SYSTEM.

Borough of New Canaan, Conn.

Sealed proposals for all labor and materials required for the construction of a Sewerage System at New Canaan, Conn., will be received until noon, September 15, 1906. The work includes three filter beds about one acre in extent, a receiving and dosing tank of brick, and about three and one-half miles of pipe sewers in two sections.

All proposals must be on prepared blanks, and such blanks can be had at the Engineer's office, Mead's Block, South Main St., New Canaan, Conn., or at Insurance Building, Dedham, Mass., at both of which places plans and specifications can be seen and examined and all information obtained. The right to reject any or all bids or to accept any bid is reserved.

J. F. BLISS, Warden,
Borough of New Canaan, Conn.
E. WORTHINGTON, Engineer. 10-1t

NOTICE TO SEWER CONTRACTORS.

A Reinforced Concrete Sewer will be built at Waterville, Maine. Estimated cost, $5,000. Plans may be obtained of Percy H. Richardson, C. E., Portland, Maine. 10-1t

OFFICE OF THE COMMISSIONERS, D. C., Washington, August 23, 1906.—Sealed proposals will be received at this office until 12 o'clock noon, September 15, 1906, for constructing a plate-girder bridge on K Street over Rock Creek and the C. & O. Canal, between 28th and 29th Streets, N. W. Blank forms of proposals, specifications and all necessary information may be obtained at Room 43, District Building. HENRY B. F. MACFARLAND, JAY J. MORROW, Acting, Commissioners, D. C. 9-2t

SEWERS.

Paducah, Ky.

Sealed proposals will be received at the office of the City Engineer up to 3 o'clock, September 10th, for the construction of about seven (7) miles of combined sanitary and storm water sewers in the City of Paducah, Kentucky. Being the same previously advertised to be let on August 25th, but afterwards deferred. Plans and specifications can be seen at the City Engineer's office.

L. A. WASHINGTON,
10-1t City Engineer.

SEWER SYSTEM.

St. Johnsville, N. Y.

Sealed proposals will be received by the Board of Trustees, as a Board of Sewer Commissioners of the Village of St. Johnsville, at the office of the Board of Trustees, at the Engine House in the Village of St. Johnsville, N. Y., until 3 o'clock P. M., on September 22d, 1906, at which time and place they will be publicly opened and read:

For constructing the entire sewer system and the work incident thereto for the said Village of St. Johnsville.

Bids must be endorsed with the name and address of the contractor making the same and be marked, "Proposal for the Construction of Sewers in the Village of St. Johnsville," and must be addressed to the "President of the Village of St. Johnsville."

Proposals shall be made for the entire work in accordance with the drawings, plans, specifications and contract, which may be seen and obtained at the office of the said Board of Trustees in the Village of St. Johnsville. The work consists of about six miles of sanitary sewers and the appurtenances.

Every proposal for said work must be accompanied by certified check upon some good banking institution within the State of New York for one thousand dollars ($1,000.00), payable to the order of the Treasurer of the Village of St. Johnsville. The deposit of the successful bidder to be retained and forfeited to the Village of St. Johnsville, in case such person shall refuse to enter into a contract in accordance with his proposal within ten days after contract is signed, and such person shall also file a bond for the faithful performance of the work and for saving the Village harmless, in an amount to be approved by the said Board of Trustees, being at least fifty per cent. of the amount of the bid.

The said Board of Trustees reserves the right to furnish sewer pipe, accept or reject any proposal or to contract with other than the lowest bidder and to reject any and all proposals and advertise again.

Dated August 29, 1906.

J. R. FLEEMAN,
GEO. A. ALLEN,
ALVIN SNELL,
H. C. KELLER,
M. J. WARNER,
10-2t Board of Sewer Commissioners.

PAVING.

Dowagiac, Mich.

Sealed propositions will be received by the City Council of the City of Dowagiac, Michigan, at the City Council chambers until 8 o'clock, P. M., the 17th day of September, 1906, for the paving of Beeson and Spaulding Streets, Division and Park Place, Streets within the limitation of the special assessment district, embracing each street respectively with brick on concrete, with the necessary drainage, cement curb and other appurtenances in accordance with the plans and specifications, which may be seen at the office of the City Clerk, Dowagiac, Michigan.

A certified check for the sum of $500 will be required as a guarantee of good faith on the part of the bidder.

Bond will be required.

The City Council reserves the right to reject any or all bids or waive defects in bids in the interest of the City by order of the City Council.

H. L. RUTTER,
City Clerk.
JOHN S. HAINES,
City Surveyor. 10-2t

SEWERS.

Borough of Narberth, Montgomery Co., Pa.

Bids for constructing a sewer system for the Borough will be received until 8 P. M., October 1st, 1906. All bids must be sealed and addressed to the Clerk of Council.

The work will consist of laying approximately six miles of terra-cotta pipe sewers (8-in., 10-in. and 12-in.), with necessary manholes, flush tanks, etc.

Plans, specifications and information for bidders may be had of the Engineers by depositing Ten Dollars, which amount will be refunded when said plans and specifications are returned in good condition.

No bid will be considered unless accompanied by a certified check for $1,000.

Council reserves the right to reject any and all bids, and to award the contract as it deems for the best interests of the Borough.

E. C. HAWLEY,
Clerk of Council.
ALBRIGHT & MEBUS,
Civil Engineers,
908 Land Title Building, Philadelphia. 10-3t

SUBWAY AND TUNNEL.

Minneapolis, Minn.

Bids are asked by the [illegible] City Rapid Transit Co., Minneapolis, M[illegible], until Sept. 17, 1906, for the construction [illegible] double track subway and tunnel. Plans a[illegible] specifications may be seen at the offices of [illegible] company.

10-2t G. L. WILS[illegible] Ch. Engr.

Situations Wanted

MANAGER of New York offi[illegible] one of the largest machinery manufa[illegible]ers desires to make a change for rea[illegible]satisfactorily explained; have had co[illegible] education and practical shop trainin[illegible] with extensive experience in the co[illegible]ercial end of the business; desires a [illegible]tion with a reliable concern as sales [illegible]ger. Address "F. 9," Engineering [illegible]ws, New York. 10-3t

CHIEF OPERATING ENGINEER [illegible]apable of installing power-house ma[illegible]y of industrial, electrical, refriger[illegible], waterworks plants; familiar with [illegible]tural engineering. Address "X. A. 1[illegible] Engineering News, New York. 10-2t

Situations Open

DRAFTSMEN WANTED—A first-class man for head draftsman; also a first-class man for preliminary work, including prospectives. Can also employ a man experienced in plumbing, steam and electrical work. R. H. HUNT, Chattanooga, Tennessee. 10-4t

WANTED IMMEDIATELY, Civil Engineer, college graduate, with not less than ten years' experience in general railroad construction, including reinforced concrete, foundations and steel bridge superstructure, for new railroad now building in Florida. Salary, $150. Give age, experience and references. Address "D. A. 10," Engineering News, New York. 10-2t

WANTED—A quick and neat architectural and mechanical draftsman for making general arrangements of industrial plants and perspective drawings. RITER-CONLEY MFG. CO., 55 Water St., Pittsburg, Pa. 10-1t

RAILROAD DRAFTSMAN wanted at once; state age, experience and salary wanted. Eng. Dept., YORK STREET RAILWAY CO., York, Pa. 10-1t

DRAFTSMAN WANTED to detail and schedule false work for reinforced concrete work; must have had practical experience in building molds; state experience and salary expected; location, New York City. Address "S. A. 10," Engineering News, New York. 10-1t

DRAFTSMEN.—Several wanted with experience in design of cement or other manufacturing plants. State experience and salary desired. Address "Z. A. 10," Engineering News, New York. 10-1t

ENGINEER BRIDGES AND BUILDINGS wanted by an important Western railway system. Must have technical education and extended experience in design and construction of railway structures of all kinds. Salary, $4,000 per year. Must give detail of education and experience and satisfactory references. Address "R. A. 10," Engineering News, New York. 10-1t

SUPERVISING ENGINEER on reinforced concrete work wanted. A man of experience capable of laying out work and directing superintendents, visiting the different jobs under construction. Purchase of several thousand dollars worth of capital stock, ensuring permanency, essential. Company operating under cost-plus-fixed-sum basis. Address "W. A. 10," Engineering News, New York. 10-2t

WANTED.—First-class concrete foreman for reinforced concrete work, by TURNER CONSTRUCTION CO., 11 Broadway, New York. 10-1t

Miscellaneous Wants

WANTED

One 8 to 10-ton and one 4 to 5-ton

ROLLER FOR PAVING

Either steam or horse.

WILKES-BARRE CONSTRUCTION CO.,
10-2t Wilkes-Barre, Pa.

FOR SALE

1 No. 6 Gates Late Style Crusher, with elevator. Absolutely good as new.

1 No. 4 Gates Style B Crusher, with manganese steel concaves. Fine condition.

1 No. 2 Gates Style B Crusher, with elevator and screen. Good little plant.

2 sets Allis Chalmers High Grade Rolls. New.

All for immediate delivery.

Contractor's Supply & Equipment Co.

10-2t 520 Old Colony Bldg., Chicago.